JACBS
Joint Annual Conference of Biomedical Science

38th 生物醫學聯合學術年會

2024 The 38th Joint Annual Conference of Biomedical Science

March 23-24, 2024

Biomedicine & Life

大會手冊



• 中華民國解剖學學會 • 台灣分子生物影像學會 • 台灣生物化學及分子生物學學會 • 中華民國細胞及分子生物學學會
• 中華民國臨床生化學會 • 台灣毒物學學會 • 中國生理學會 • 台灣藥理學會 • 中華民國免疫學會

獲全台總經銷

Agilent | Channel Partner

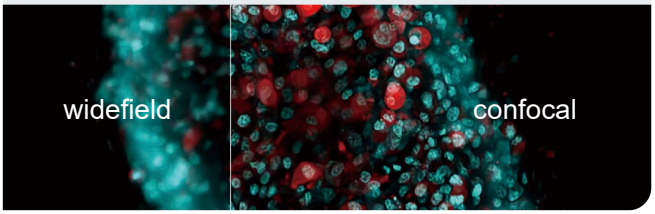
Cell Analysis Division (CLSD) 系列產品



Agilent BioTek Cytation C10
多功能影像與光學讀取系統

應用
- 活細胞、組織影像分析
- 動力呈色試驗 (Endotoxin...)
- 吸收光、冷光、螢光光學檢測 (ELISA, MTT...)

特色
- 共軛焦影像
- 影像自動對焦、雷射自動對焦
- 高對比明視野、相位差
- 批次拍攝、定位拍攝

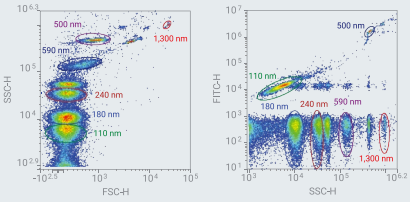




Agilent Novocyte Flow Cytometer
高解析流式細胞儀

應用
- 大分子、小分子、微粒藥物篩選
- 單顆細胞多色螢光標記
- 絕對細胞計數、細胞表型辨識
- 細胞增殖、週期、分化、活化、凋亡、死亡

特色
- 螢光自動補償
- siPMT高靈敏偵測器
- 自動化液流保養

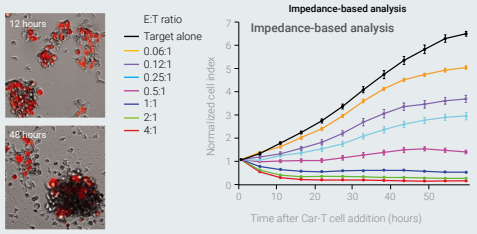




xCELLigence Real-Time Cell Analysis
電阻式活細胞行為分析系統

應用
- 藥物、疫苗開發與篩選
- 病毒、細菌微生物檢測
- 材料、環境及食品毒性、品管
- 癌細胞遷移、浸潤、共培養、細胞間交互作用

特色
- 活細胞即時分析，突破終點測試
- 電阻抗偵測系統
- 可同時記錄細胞影像與電阻

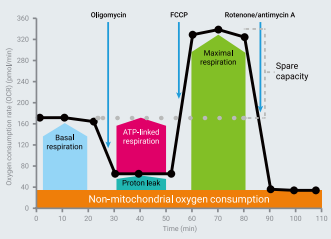




Agilent Seahorse XF Analyzer
細胞/組織能量即時分析儀

應用
- 癌細胞瓦式效應、反瓦式效應
- 糖尿病、肥胖症、各代謝症候群
- 老化與退化性神經疾病
- 免疫細胞分化、活化時的代謝適應性

特色
- 活細胞即時分析
- 不須染劑、不須標記
- 多種試劑可供選擇



進階生物科技
台北總公司 02-26959935 傳真 02-26958373
免付費專線 0800-251302 www.level.com.tw
進階官網 FB粉絲團

38th 生物醫學聯合學術年會

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大會會長的話

尊敬的與會者、尊貴的嘉賓、親愛的會員們，大家好！

我謹以生物醫學聯合學術年會大會召集人的身分，熱烈歡迎您參加這一年度的盛會。我們的年會主題是「Biomedicine and Life」， 它代表了我們對生物醫學和生活之間聯繫的探索，以及這種聯繫如何影響我們的未來。

生物醫學是一個不斷發展和演變的領域，它涵蓋了生命科學、醫學、技術和健康政策等多個層面。 這個領域的研究和創新影響著我們的生活、健康和福祉。我們在這次年會中將有機會一同探討生物醫學的最新發展，分享經驗和見解， 並建立有價值的聯繫。

我們的聯合學術年會議程豐富多彩，包括主題特別演講、主題學術研討會、學生口頭論文競賽、壁報展示和互動討論等活動， 涵蓋了生物醫學領域的廣泛主題。我鼓勵每一位參與者積極參與這些活動，共同探討如何更好地理解生命、改善醫療和生活品質。

我們也應該謹記我們的使命，那就是改善生命的質量並為人類的健康和福祉不斷努力。我們的研究成果和創新應該能夠轉化為實際的應用， 以解決全球性的健康挑戰。讓我們共同思考，如何能更有效地將我們的科學研究成果轉化為具體的實際應用行動，造福更多的人們。

最後，我要特別感謝本屆生物醫學聯合學術年會籌備委員會、合作夥伴，以及所有參與這次盛會的人們。 你們的辛勤工作和奉獻精神是這次聯合學術年會成功舉辦的關鍵。讓我們一同合作，確保這次年會為所有參與者提供一個富有啟發性和交流的平臺。

祝願我們在這個生物醫學聯合學術年會上，共同啟發思考、促進合作，並為「Biomedicine and Life」的未來共同努力。

謝謝大家，祝第 38 屆生物醫學聯合學術年會取得巨大成功！



中華民國解剖學學會
理事長 陳天華

交通示意圖 & 接駁車訊息

前往國防醫學院交通示意圖 & 接駁車訊息

年會舉辦地點：
國防醫學院 (114 臺北市內湖區民權東路六段 161 號)



接駁車時刻表

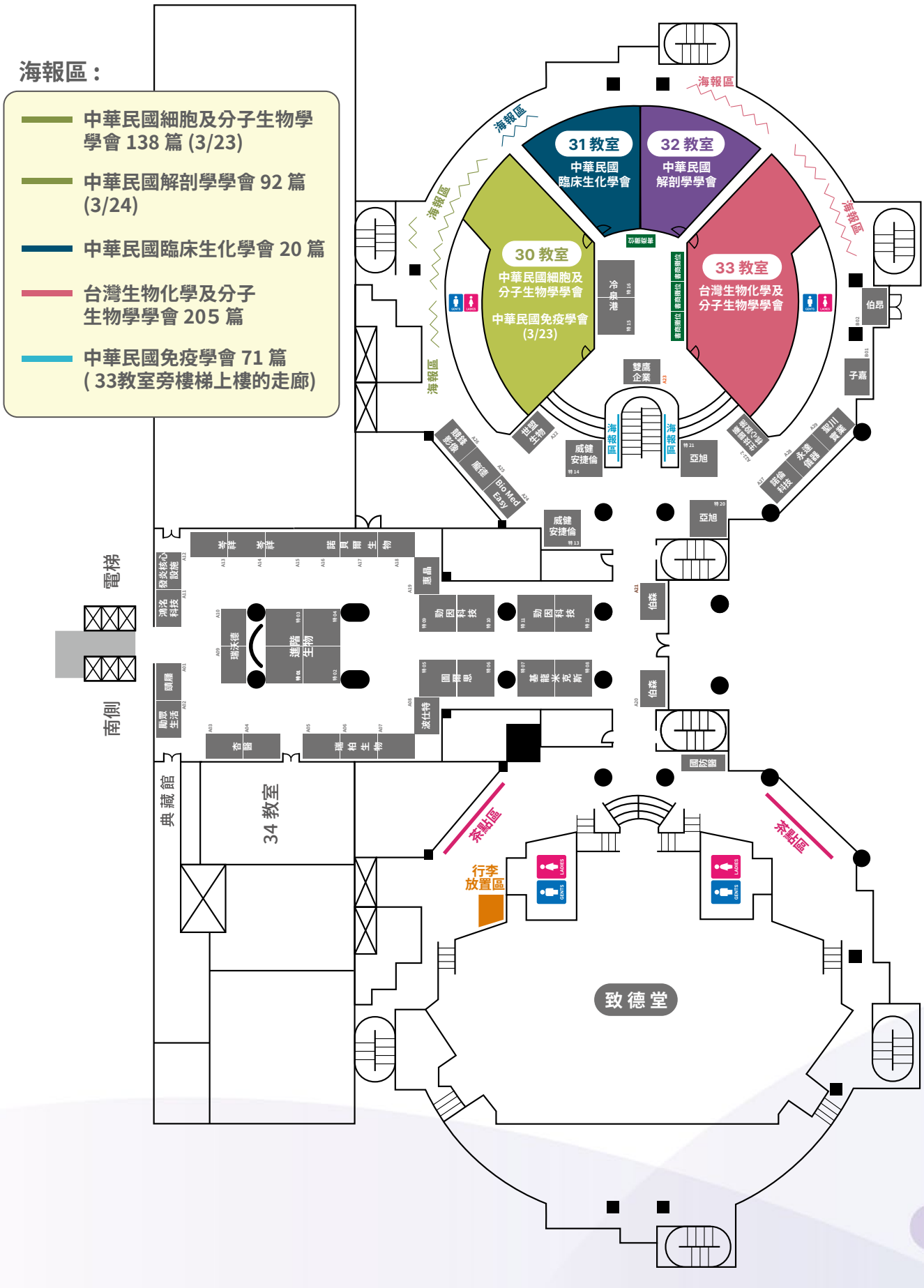
- 皆安排 43 人大巴
- 首班時間：07:00，次班時間：07:10
  之後每 20 分鐘一班。

日期	地點	時間
3/23 | 3/24	捷運昆陽站一號出口 → 國防醫學院	07:00
		07:10-10:00 (約 20 分鐘一班)
	國防醫學院 → 捷運昆陽站一號出口	15:30-18:00 (約 20 分鐘一班)

停車相關事宜

國防醫學院之停車場為免費停放。（由於停車位有限，建議搭乘大眾運輸工具。）
三軍總部之停車場，採計時方式計費，每小時為 40 元。
請勿占用專屬停車位。

3F 平面圖

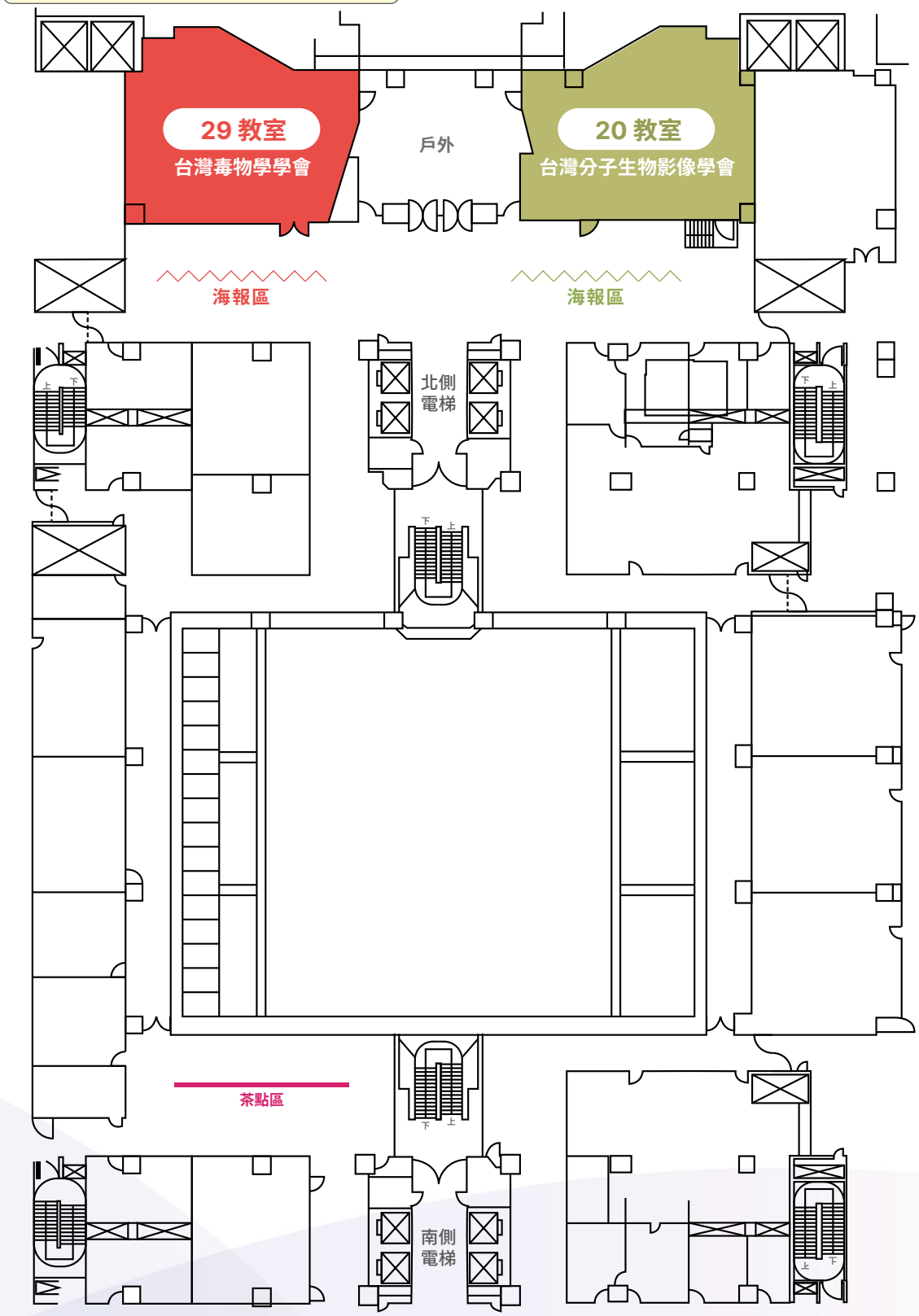

海報區：
中華民國細胞及分子生物學學會 138 篇 (3/23)
中華民國解剖學學會 92 篇 (3/24)
中華民國臨床生化學會 20 篇
台灣生物化學及分子生物學學會 205 篇
中華民國免疫學會 71 篇 (33教室旁樓梯上樓的走廊)
31 教室
中華民國臨床生化學會
32 教室
中華民國解剖學學會
30 教室
中華民國細胞及分子生物學學會
中華民國免疫學會 (3/23)
33 教室
台灣生物化學及分子生物學學會
海報區
電梯
南側
典藏館
34 教室
茶點區
行李放置區
致德堂
圖書館

2F 平面圖

海報區：

台灣毒物學學會 84 篇

台灣分子生物影像學會 50 篇

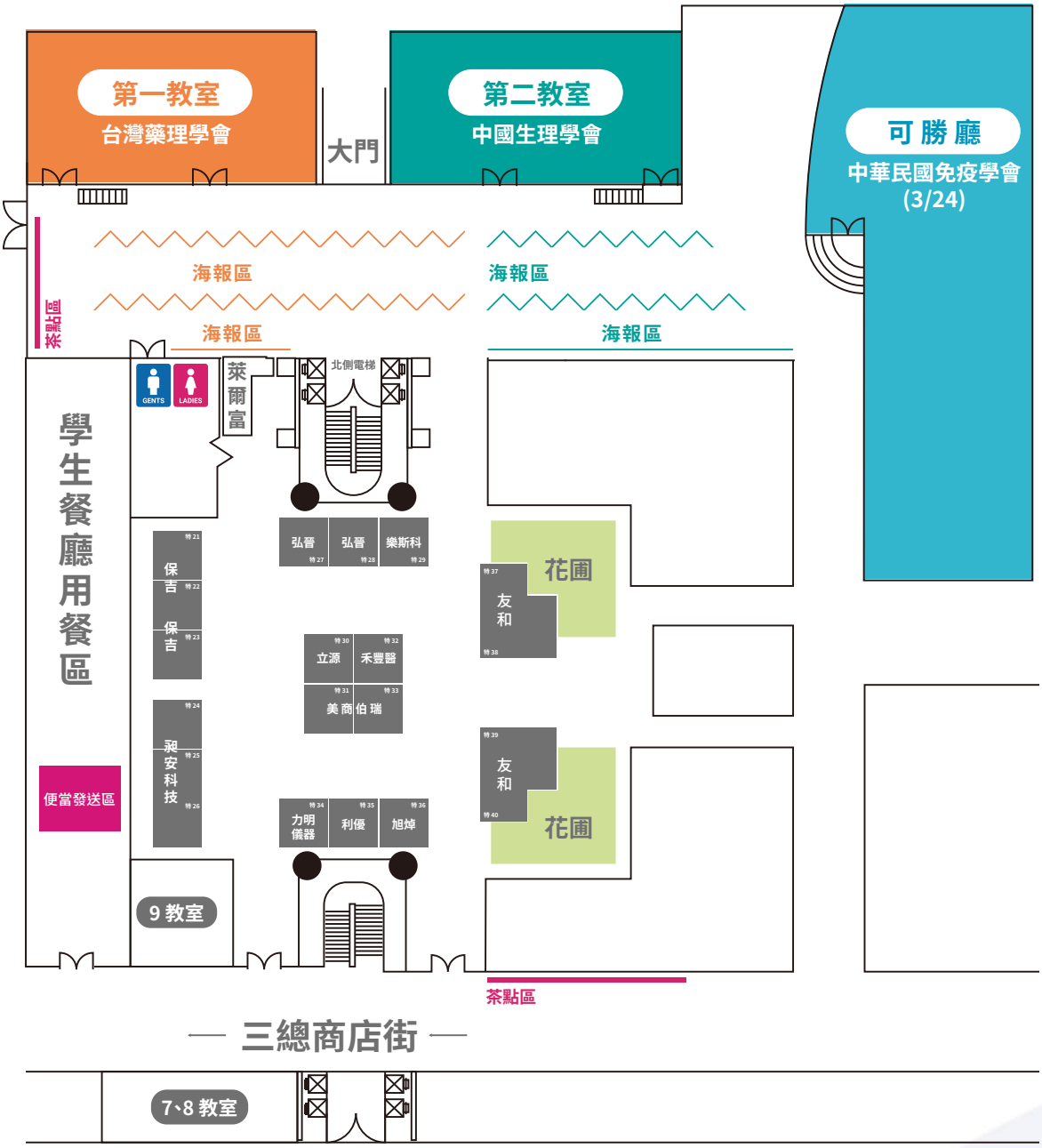


1F 平面圖

海報區：

台灣藥理學會 220 篇

中國生理學會 135 篇



第 38 屆生物醫學聯合學術年會
參與學會暨理事長與秘書長名單

學會名稱	理事長	秘書長
中華民國解剖學學會	陳天華	江青樹
中華民國免疫學會	司徒惠康	莊雅惠
台灣分子生物影像學會	林康平	楊邦宏
台灣生物化學及分子生物學學會	鄭子豪	王琬菁
中華民國細胞及分子生物學學會	司徒惠康	李岳倫
中華民國臨床生化學會	徐慧貞	郭靜穎
台灣毒物學學會	王應然	郭靜娟
中國生理學會	陳景宗	盧主欽
台灣藥理學會	林琬琬	林泰元

第 38 屆生物醫學聯合學術年會 會議資訊

	時間	地點
開幕式	113 年 3 月 23 日 08:30-08:50	致德堂
大會特別演講	113 年 3 月 23 日 08:50-09:50	致德堂

學會特別演講及會員大會時間表

學會名稱	學會特別演講	學會會員大會	地點
中華民國解剖學學會	113 年 3 月 23 日 10:05-11:05	113 年 3 月 23 日 11:05-12:05	三樓 32 教室
中華民國免疫學會	113 年 3 月 23 日 10:20-14:00		三樓 30 教室
台灣分子生物影像學會	113 年 3 月 24 日 10:20-11:40	113 年 3 月 24 日 11:45-12:00	二樓 20 教室
台灣生物化學及分子生物學學會	113 年 3 月 23 日 10:10-11:00	113 年 3 月 24 日 15:50-16:00	三樓 33 教室
中華民國細胞及分子生物學學會	113 年 3 月 23 日 10:20-14:00 113 年 3 月 24 日 10:40-11:20		三樓 30 教室
中華民國臨床生化學會	113 年 3 月 23 日 10:00-11:00	113 年 3 月 23 日 11:00-11:30	三樓 31 教室
台灣毒物學學會	113 年 3 月 24 日 10:40-11:40	113 年 3 月 23 日 16:10-17:10	二樓 29 教室
中國生理學會	113 年 3 月 23 日 10:00-11:00	113 年 3 月 23 日 11:00-12:00	一樓 第二教室
台灣藥理學會	113 年 3 月 23 日 14:00-15:00	113 年 3 月 23 日 15:10-17:10	一樓 第一教室

3/23 大會議程

3月23日	一樓			二樓		三樓			
	藥理	生理	免疫	分生影像	毒物	細分	臨床生化	解剖	生化
	第一教室	第二教室	30教室/3樓	20教室	29教室	30教室	31教室	32教室	33教室
08:00	報到								
08:30 08:50	開幕式 (致德堂)								
08:50 09:50	大會特別演講 (致德堂) Speaker: 林欣榮 院長 Modertator: 徐佳福 教授								
09:50 10:00	Coffee Break								
10:00 12:00	10:00-11:30 研究生論文獎口頭決賽 Moderator: 張文昌 院士	09:00-13:00 壁報展示時段 I (討論時段12:00-13:00) 10:00-11:00 學會特別演講 Speaker: 邢秀玲 教授 Moderator: 陳景宗 理事長 11:00-12:00 會員大會	10:00-10:20 開幕式 (免疫&細分) 司徒惠康 理事長 10:20~11:10 學會特別演講1 (免疫&細分) Speaker: 陳列平 院士 Moderator: 洪明奇 院士 11:10~12:00 學會特別演講2 (免疫&細分) Speaker: 洪明奇 院士 Moderator: 謝世良 特聘研究員	09:00-12:00 學會壁報論文競賽展示 評審: 陳傳霖 副教授 楊邦宏 副教授	10:00-12:15 學會口頭論文競賽 Moderator: 姜至剛 教授 許美鈴 教授	10:00-10:20 開幕式 (免疫&細分) 司徒惠康 理事長 10:20~11:10 學會特別演講1 (免疫&細分) Speaker: 陳列平 院士 Moderator: 洪明奇 院士 11:10~12:00 學會特別演講2 (免疫&細分) Speaker: 洪明奇 院士 Moderator: 謝世良 特聘研究員	10:00-11:00 學會特別演講 Speaker: Man-Ho Choi, Ph.D. Modertator: 徐慧貞 理事長 11:00-11:30 會員大會	10:00-10:05 解剖學會開幕式 Speaker: 陳天華 理事長 10:05-11:05 學會特別演講 Speaker: 許惠恒 院長 Modertator: 陳天華 理事長 11:05-12:05 會員大會	10:00-10:10 生化學會開幕式 10:10-11:00 學會特別演講 Speaker: 張智芬 講座教授 Modertator: 鄭子豪 理事長 11:00-12:00 壁報論文 非競賽展示
12:00 13:00	12:00-13:00 午餐 科技新知研討會 (弘晉)	午餐	12:00-13:00 午餐 科技新知研討會 1F，可勝廳 (昶安)	午餐	午餐	12:00-13:00 午餐 科技新知研討會 (威健)	13:00-15:00 午餐 科技新知研討會 3F，34教室 (萊富生命科技)	午餐	12:00-13:00 午餐 科技新知研討會 (諾貝爾生物)
13:00 15:30	12:00-14:00 李天德壁報論文競賽海報展示評分 一般論文海報展示 I 14:00-15:00 學會特別演講 Speaker: 陳儀莊 教授 Moderator: 林琬琬 理事長 15:00-15:10 Coffee Break	13:00-17:00 壁報展示時段 II (討論時段13:00-14:00) 13:00-14:20 壁報論文競賽 14:20-14:30 Coffee Break 14:30-17:00 (研討會) CPS講座一： Renal Physiology Speaker: 林水龍 教授 湯銘哲 教授 邱文泰 教授 楊智宇 教授 陳嘉君 副研究員 Moderator: 李宗玄 教授	13:10-14:00 學會特別演講3 (免疫&細分) Speaker: Dr. Arlene H. Sharpe Moderator: 謝世良 特聘研究員 14:00-15:00 (研討會) 專題演講 (免疫&細分) Speaker: 李永凌 研究員 陳韻晶 教授 Moderator: 張智芬 特聘教授 15:00-15:30 Coffee Break 15:30-17:10 壁報論文競賽	12:00-14:30 學會壁報論文展示 14:30-15:00 (研討會) Plenary Speaker I: 劉欣怡 助理教授 Moderator: 蘇家豪 教授 15:00-15:30 Coffee Break 15:30-16:00 (研討會) Plenary Speaker II: 夏建忠 研究員 Moderator: 黃文盛 教授 16:00-16:30 (研討會) Plenary Speaker III: 盧家鋒 副教授 Moderator: 陳賢燁 教授 16:30-17:00 (研討會) Plenary Speaker IV: 莊惠燕 助理教授 Moderator: 廖愛禾 教授	12:00-13:30 壁報論文展示與競賽 13:30-16:00 (研討會) 化學品/化妝品/醫材安全性評估及替代測試之趨勢及挑戰 Speaker: 陳柏霖 博士 陳婉昕 博士 楊靜欽 博士 秦咸靜 博士 綜合討論 Moderator: 王應然 教授 劉興華 教授 16:00-16:10 Coffee Break 16:10-17:10 台灣毒物學學會第十一屆第7次理監事暨會員大會	13:10-14:00 學會特別演講3 (免疫&細分) Speaker: Dr. Arlene H. Sharpe Moderator: 謝世良 特聘研究員 14:00-15:00 (研討會) 專題演講 (免疫&細分) Speaker: 李永凌 研究員 陳韻晶 教授 Moderator: 張智芬 特聘教授 15:00-15:10 Coffee Break 15:10-17:10 壁報競賽及展示	13:00-14:00 海報競賽與展示 14:20-16:40 (研討會) Microbiome in Health and Disease Speaker: 邱政洵 教授 賴信志 教授 吳偉愷 教授 Moderator: 徐慧貞 理事長 林佳霓 理事 17:00 壁報論文競賽頒獎	09:00-15:30 解剖學學會第十八屆理監事選舉投票 14:00-15:30 (研討會) Symposium I: 研討會演講 解剖教學 Speaker: 陳玉怜 所長 鄭瓊娟 所長 曾國藩 主任 Moderator: 徐佳福 教授 15:30-15:40 Coffee Break 15:40-17:30 中華民國解剖學學會第十八屆理監事選舉開票	13:00-14:40 壁報論文競賽I 14:40-15:00 Coffee Break 15:00-17:10 (研討會) Gene Editing and Regulation in Biomedical Research Sperker: 凌嘉鴻 助研究員 陳威儀 教授 胡育誠 教授 Dr. Wilhelm Gruissem Modertator: 楊長賢 講座教授
18:00 21:00	藥理與毒理之夜	晚宴			藥理與毒理之夜				

3/24 大會議程

3月24日	一樓			二樓		三樓			
	藥理	生理	免疫	分生影像	毒物	細分	臨床生化	解剖	生化
	第一教室	第二教室	可勝廳	20教室	29教室	30教室	31教室	32教室	33教室
07:00	報到								
07:30 09:30	大會主題口頭論文競賽 (致德堂)								
09:40 10:30	陳炯霖轉譯醫學講座特別演講 (致德堂) Speaker: 林國儀 教授 Moderator: 司徒惠康 理事長								
10:30 10:40	Coffee Break								
10:40 12:00	10:40-12:10 (研討會) 學會學術演講 (一) 主題: Ocular Pharmacology and Regenerative Therapy Speaker: 邱士華 教授 鄭幼文 教授 蔡榮坤 教授 Moderator: 蕭哲志 教授 11:00-13:00 一般論文海報展示 II	9:00-13:00 壁報展示時段 III (討論時段11:00-12:00) 10:40-12:10 口頭論文競賽 Moderator: 吳明恒 副教授	10:50-12:00 口頭論文競賽	08:00-10:10 口頭論文競賽 Moderator: 吳俊一 助理教授 柯建志 助理教授 10:20-11:00 學會特別演講 Keynote Speaker I : 邱文泰 教授 Moderator: 林康平 理事長 11:00-11:40 學會特別演講 Keynote Speaker II : 劉仁賢 教授 Moderator: 王昱豐 理事長 11:45-12:00 頒獎及會員大會	08:00-17:00 壁報論文展示 (非競賽) 10:40-11:40 學會特別演講 Speaker: 陳璿宇 研究員 Moderator: 王應然 教授	10:40-11:20 學會特別演講 Speaker: 陳鈴津 院士 Moderator: 謝世良 特聘研究員 11:20-12:00 (研討會) 專題演講 Speaker: 楊慕華 副校長 Moderator: 謝世良 特聘研究員	10:40-12:10 學會口頭論文競賽 12:20-12:30 學會口頭論文頒獎	08:00-17:00 教學及研究海報展示 10:40-12:10 (研討會) Symposium II: 口頭論文競賽得獎學生演講 Moderator: 江青樹 秘書長 10:30-13:30 學術海報競賽	10:40-12:20 壁報論文競賽 II
12:00 13:00	午餐								
13:00 14:00	13:00-14:00 一般論文海報展示 III	12:10-13:30 生理學會餐會 13:00-17:00 壁報展示時段 IV (討論時段13:30-14:30) 14:20-14:30 Coffee Break	13:30-15:00 (研討會) 113 年國科會微免及檢驗醫學學門規劃研究推動計畫研究成果發表會 (國科會、臨床生化＆免疫)		13:00-15:30 (研討會) 以微生物組與多體學探索環境污染與健康守護在現代毒理學之挑戰 Speaker: 李宥萱 副教授 莊校奇 教授 黃雪莉 教授 陳惠文 教授 綜合討論 Moderator: 李志恒 教授 楊振昌 教授	13:00-15:00 (研討會) 專題演講 Speaker: 郭呈欽 研究員 胡春美 助研究員 陳嘉霖 助理教授 Moderator: 李岳倫 研究員	13:30-15:00 1F，可勝廳 (研討會) 113 年國科會微免及檢驗醫學學門規劃研究推動計畫研究成果發表會 (國科會、臨床生化＆免疫)	14:00-15:30 (研討會) Symposium III: 細胞醫學 & 神經醫學 Speaker: 莫凡毅 教授 甘祐瑜 副教授 郭曉縈 助理教授 Moderator: 傅毓秀 教授	13:30-15:40 (研討會) Aging and Age-Related Disease Sperker: 金翠庭 副教授 林敬哲 教授 楊尚訓 教授 陳韻如 研究員 Modertator: 王琬菁 秘書長
14:00 15:00	14:00-15:00 (研討會) 學會學術演講 (二) 主題: 癌症新穎標靶及治療 Speaker: 王憶卿 教授 林宥欣 教授 Moderator: 湯智昕 教授	14:30-16:30 (研討會) CPS講座二：新進學者專題演講 Speaker: 葉儀君 助理教授 楊豐名 副教授 顏怡君 助理教授 徐經倫 助研究員 Moderator: 李青澔 教授	15:00-15:20 Coffee Break 15:20-16:00 閉幕式及論文競賽頒獎典禮 司徒惠康 理事長		15:30-15:40 Coffee Break 15:40-16:40 閉幕式暨論文競賽頒獎典禮 會議主席： 王應然 理事長 Moderator: 郭靜娟 秘書長	15:00-15:30 Coffee Break		15:30-15:40 Coffee Break 15:40-16:50 (研討會) Symposium IV: 創意解剖教學影片播放 16:50-17:00 閉幕典禮	15:40-15:50 Coffee Break 15:50-16:00 會員大會暨頒獎典禮
15:00 16:00	15:00-15:15 Coffee Break 15:15-16:45 (研討會) 學會學術演講 (二) 主題: 癌症新穎標靶及治療 Speaker: 黃偉謙 教授 華國泰 教授 潘秀玲 教授 Moderator: 湯智昕 教授								
16:00 17:10		16:30-17:00 口頭及壁報論文競賽頒獎典禮				16:10-17:10 閉幕式及優秀壁報論文競賽頒獎典禮 司徒惠康 理事長			

38th 生物醫學聯合學術年會

2024 The 38th Joint Annual Conference of Biomedical Science

大會特別演講

Keynote Lecture



大會特別演講

113 年 3 月 23 日 (週六) 08:50-09:50
地點：3 樓，致德堂
座長：徐佳福 教授
講題：生物技術的創新研發
講者：林欣榮 院長
單位：Hualien Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation



Speaker/
林欣榮
Shinn-Zong Lin

Hualien Tzu Chi Hospital, Buddhist Tzu Chi Medical Foundation

Current Position Title:
Superintendent

Education/Training:
Master of Medical Management, Tulane University, U.S.A.
October 1998- May 2000
Ph.D., Program
Graduate Student, Dept. Physiology and Biophysics, and
Dept. Neurological Surgery, State University of New York at Stony Brook. U.S.A.
August, 1986 --- August, 1989

Professional and Research Experience:
1.Develop precision agriculture of salvia ginseng, angelica root, and mugwort to promote the improvement of aging health-care functional products and value-added agricultural industry - Develop precision agriculture of salvia ginseng, angelica root, and mugwort to promote the improvement of aging health-care functional products and value-added agricultural industry (2022/7/1-2024/6/30)
2.Purification of dopaminergic neuron sub-populations for improving Parkinson's disease transplantation therapy and discovering dopamine motor function circuits (2021/8/1-2024/7/31)

Awards and Honors:
1.Fellow of American Association for the Advancement of Science (AAAS), 2016.2-present
2.International Fellow of American Association of Neurological Surgery (AANS), 2015-present
3.Charter Fellow of National Academy of Inventors USA (NAI), 2013-present

Selected Publications:
1.Pan YH, Lin SZ, Chiu TL. Biodegradable controlled-release polymer containing butylidenephthalide to treat a recurrent cervical spine glioblastoma with promising result: a compassionate trial a report. Anticancer Drugs. 2022 Apr 1;33(4):394-399. doi: 10.1097/CAD.0000000000001275 (SCI).
2.Liu CA, Liu WH, Ma HI, Chen YH, Hueng DY, Tsai WC, Lin SZ, Harn HJ, Chiou TW, Liu JW, Lee JH, Chiu TL. Interstitial Control-Released Polymer Carrying a Targeting Small-Molecule Drug Reduces PD-L1 and MGMT Expression in Recurrent High-Grade Gliomas with TMZ Resistance. Cancers (Basel). 2022 Feb 18;14(4):1051. doi: 10.3390/cancers14041051 (SCI).

3/23 (六) 08:50-09:50
3 樓 致德堂

生物技術的創新研發

林欣榮
Shinn-Zong Lin

The concept of translational medicine is to establish a rapid channel between the laboratory and the bedside, achieving a bidirectional transformation between basic research and clinical treatment. It is the driving force behind “Bioinnovation Center” and “Traditional Chinese Medical Center”, with the hope of alleviating patients' suffering.

It encompasses the following three principal domains:

Anti-cancer
A. BP Wafer for the treatment of malignant brain tumors: Completion of phase IIa clinical trial with twenty-two cases
B. Exosome nanoparticle antibodies for malignant brain tumors, technology transfer in progress
C. Probiotic protein for fighting malignant brain tumors, technology transfer in progress
D. Nasal spray nanoparticle medication for treating brain tumors and neurodegenerative diseases, technology platform transfer in progress
E. Traditional Chinese medicine block the escape mechanism of drug resistant in malignant tumors, clinical validation in progress
F. Identification of tumor cells in peripheral blood and precision medicine, clinical application in progress

Anti-aging
A. Dual-target exosome therapy for Alzheimer's disease, technology transfer in progress
B. Dopamine neuron transplantation for the treatment of Parkinson's disease, technology transfer in progress
C. Cell therapy for cerebellar degeneration, pilot clinical trial in progress
D. Cell therapy for amyotrophic lateral sclerosis (ALS), pilot clinical trial in progress
E. Cell therapy for chronic stroke, phase IIa completed
F. Cell therapy for acute stroke, phase I clinical trial completed
G. Mesenchymal stem cell therapy for chronic spinal cord injury, under special management treatment
H. Cell therapy for acute spinal cord injury, phase I clinical trial in progress
I. Research projects of traditional Chinese medicine on anti-aging effects in various disease model, including in vitro and in vivo, has been completed. The various phases of randomized double-blind clinical trials are progressing.
J. Plant stem cell research on anti-cancer and anti-aging effects in vitro and in vivo
K. Precision medicine approach in traditional Chinese medicine
L. AI applications in the research and development of medicines.

Development of medical materials
A. Development and clinical application of smart brain surgery robots, currently in clinical use
B. Smart distance medical box, currently in use
C. Intelligent No. 9 - Integration of ACLS smart cabinet emergency information control system"

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陳炯霖轉譯醫學講座 特別演講暨頒獎典禮

The Chiung-Lin Chen Translational Medicine Award



陳炯霖轉譯醫學講座 特別演講暨頒獎典禮

113 年 3 月 24 日 (週日) 09:40-10:30
地點：3 樓，致德堂
座長：司徒惠康 理事長
講題：B cells and Plasma cells: from Basic Research to Translational Applications
講者：林國儀 教授
單位：Genomics Research Center, Academia Sinica



Speaker/
林國儀
Kuo-I Lin

Genomics Research Center, Academia Sinica

Current Position Title:

Distinguished Research Fellow and Professor & Division Director of Medical Biology, Genomics Research Center, Academia Sinica

Education/Training:

• B.S. (1991), Department of Medical Technology, National Taiwan University (NTU). • M.S. (1993), Institute of Medical Technology, NTU. • Ph.D. (1998), Department of Molecular Microbiology and Immunology, The Johns Hopkins University, USA. • Post-doctoral fellow (2003) & Associate Research Scientist (2004), Department of Microbiology, Columbia University, USA.

Professional and Research Experience:

• Distinguished Research Fellow (2022), Genomics Research Center (GRC), Academia Sinica, Taiwan. • Division Director of Medical Biology (2014), GRC, Academia Sinica. • Research Fellow (2014), Associate Research Fellow (2009), Assistant Research Fellow (2004), GRC, Academia Sinica. • Adjunct Professor (2016), Graduate Institute of Immunology, National Taiwan University.

Awards and Honors:

• Outstanding Research Achievement to National Health, Ming-Ning Wang Memorial Foundation (2019) • Outstanding Research Award (2016), Ministry of Science and Technology, Taiwan. • Chair in Biotechnology, Taiwan Bio-Development Foundation (2015) • Outstanding Research Award, The Chinese Society of Immunology, Taiwan (2014) • Young Scientist Research Award, Tien-Te Lee Biomedical Foundation, Taiwan (2014) • Outstanding Research Award, National Science Council, Taiwan (2013) • Academia Sinica Career Development Award (2010) • 1st ASAIHL-Scopus Young Scientist Award (Winner of Life Sciences) (2008) • Li Foundation Heritage Prize (2005)

Selected Publications:

1. Huang, H.-Y., et al, Lin, K.-I*, Ma, C*. and Wong, C.-H.* (2022) Vaccination with SARS-CoV-2 spike protein lacking glycan shields elicits enhanced protective responses in animal models. Science Translational Medicine. 14(639): eabm0899 (online Featured article)
2. Liu, C.-H., et al., Hung, S.-C.*, and Lin, K.-I* (2019) HLA-B27-mediated activation of TNAP phosphatase promotes pathogenic syndesmophyte formation in ankylosing spondylitis. Journal of Clinical Investigation.129 (12): 5357-5373. (Highlighted by Nature Reviews Rheumatology)
3. Wu, J.-L., et al., Angata, T.* and Lin, K.-I* (2017) O-GlcNAcylation is required for B cell homeostasis and antibody responses. Nature Communications. 8(1): 1854.
4. Chiang, M.-F., et al. and Lin, K.-I* (2013) Inducible deletion of Blimp-1 gene in adult epidermis causes granulocyte-dominated chronic skin inflammation in mice. Proc Natl Acad Sci USA. 110 (16): 6476-6481. (Highlighted by Nature Reviews Immunology and Nature Immunology)
5. Lin, F.-R., et al., and Lin, K.-I* (2012) ASK1 promotes apoptosis of normal and malignant plasma cells. Blood. 120 (5): 1039-1047.

3/24 (日) 09:40-10:30
3 樓 致德堂

B cells and Plasma cells: from Basic Research to Translational Applications

林國儀
Kuo-I Lin

B cells are a unique type of immune cells that can become antibody-secreting plasma cells once they are activated and differentiated, and provide the long-term memory and humoral antibody immunity. In addition to their function in providing humoral immunity and serving as antigen presenting cells, certain B cells called regulatory B cells (Bregs) are able to negatively regulate immune responses. My laboratory has been investigating the molecular mechanisms controlling B cell activation and differentiation, with an emphasis on the roles of transcriptional and epigenetic regulations, and post-translational modifications. In addition, we are also keen to employ the single B cell screening platform to isolate monoclonal antibodies in disease contexts, particularly in infectious diseases, and study their functions. Here, I will present our findings that reveal the regulatory mechanisms controlling the activation and plasma cell differentiation of B cells. I will also present the mode of actions of monoclonal antibodies isolated from immunized mice or infected individuals.

38th 生物醫學聯合學術年會

2024 The 38th Joint Annual Conference of Biomedical Science

學會特別演講

Keynote Speech



學會特別演講

中華民國解剖學學會
113 年 3 月 23 日 (週六) 10:05-11:05
地點：3 樓，32 教室
座長：陳天華 理事長
講題：Precision Medicine in Diabetes: An Update
講者：許惠恒 院長
單位：國家衛生研究院

中華民國免疫學會 X 中華民國細胞及分子生物學學會
113 年 3 月 23 日 (週六) 10:20-11:10
地點：3 樓，30 教室
座長：洪明奇 院士
講題：Molecular Basis of Immunologically “cold” Tumor
講者：陳列平 院士
單位：Yale University

中華民國免疫學會 X 中華民國細胞及分子生物學學會
113 年 3 月 23 日 (週六) 11:10-12:00
地點：3 樓，30 教室
座長：謝世良 特聘研究員
講題：Marker-guided Effective Therapy (Mget)
講者：洪明奇 院士
單位：China Medical University

中華民國免疫學會 X 中華民國細胞及分子生物學學會
113 年 3 月 23 日 (週六) 13:10-14:00
地點：3 樓，30 教室
座長：謝世良 特聘研究員
講題：The Biology Behind PD-1 Checkpoint Blockade
講者：Dr. Arlene H. Sharpe
單位：Harvard University, Harvard Medical School

台灣分子生物影像學會
113 年 3 月 24 日 (週日) 10:20-11:00
地點：2 樓，20 教室
座長：林康平 理事長
講題：Optogenetically-Engineered Calcium Signaling Regulating Mitochondrial Fission and Cell Death
講者：邱文泰 教授
單位：Department of Biomedical Engineering, National Cheng Kung University

台灣分子生物影像學會
113 年 3 月 24 日 (週日) 11:00-11:40
地點：2 樓，20 教室
座長：王昱豐 理事長
講題：Advances in Molecular Imaging of Exosomes
講者：劉仁賢 教授
單位：Cheng Hsin General Hospital

台灣生物化學及分子生物學學會
113 年 3 月 23 日 (週六) 10:10-11:00
地點：3 樓，33 教室
座長：鄭子豪 特聘教授
講題：A Nucleotide Enzyme Moonlights as a Gatekeeper Required for Mitochondrial Quality Control
講者：張智芬 講座教授
單位：National Taiwan University

中華民國細胞及分子生物學學會
113 年 3 月 24 日 (週日) 10:40-11:20
地點：3 樓，30 教室
座長：謝世良 特聘研究員
講題：Seeking Therapeutic Targets for Cancer Immunotherapy
講者：陳鈴津 院士
單位：Distinguished Chair Professor, Institute of Stem Cell & Translational Cancer Research, CGMH at Linkou and Chang Gung Univ.

中華民國臨床生化學會

113 年 3 月 23 日 (週六) 10:00-11:00
地點：3 樓，31 教室
座長：徐慧貞 理事長
講題：Steroid Profiling in The Assessment of Adrenal and Gonadal Functions
講者：Man-Ho Choi, Ph.D.
單位：Korea Institute of Science and Technology

台灣毒物學學會

113 年 3 月 24 日 (週日) 10:40-11:40
地點：2 樓， 29 教室
座長：王應然 教授
講題：Exposome, Genome Editing, Tumorigenesis, and Precision Immuno-Oncology
講者：陳璿宇 研究員
單位：Institute of Statistical Science, Academia Sinica

中國生理學會

113 年 3 月 23 日 (週六) 10:00-11:00
地點：1 樓， 第二教室
座長：陳景宗 理事長
講題：Structural Mechanism of K_{ATP} channel Physiology, Pathophysiology, and Pharmacology
講者：邢秀玲 教授
單位：Oregon Health and Science University

台灣藥理學會

113 年 3 月 23 日 (週六) 14:00-15:00
地點：1 樓， 第一教室
講題：Microglial Galectin-3 and Neuroinflammation – with A Specific Focus on Neurodegenerative Diseases
講者：陳儀莊 教授
單位：Institute of Biomedical Sciences, Academia Sinica



Speaker/
許惠恒
Wayne Huey-Herng Sheu

Institute of Molecular and Genomic Medicine,
National Health Research Institutes, Taiwan

Current Position Title:
•Vice President, National Health Research Institutes (NHRI), Taiwan
•Distinguished Investigator, Institute of Molecular and Genomic Medicine, NHRI, Taiwan
•Attending Physician and Professor of Medicine, Taipei Veterans General Hospital, Taipei, Taiwan

Education/Training:
•Institute of Medical Sciences, NDMC, Taipei, Taiwan (PhD), 1985-1989
•Graduate Institute of Health Care Organization, National Taiwan University, Taipei, Taiwan (MS), 2001-2003

Professional and Research Experience:
•Superintendent, Taipei Veterans General Hospital, Taipei, Taiwan, 2021-2022
•Superintendent, Taichung Veterans General Hospital, Taichung, Taiwan, 2015-2021
•Executive Audit of Board, Diabetes Association of the Republic of China (Taiwan), 2019-present
•Executive committee, International Diabetes Federation Western Pacific Region (IDF WPR), 2018-present

Awards and Honors:
•2022 Distinguished Leadership Award of AASD (Asia Association Study of Diabetes)
•2019 Award for Diabetes in Society and Culture of IDF (International Diabetes Federation)
•2021 Outstanding Personal Award of National Medical Quality of Joint Commission of Taiwan.

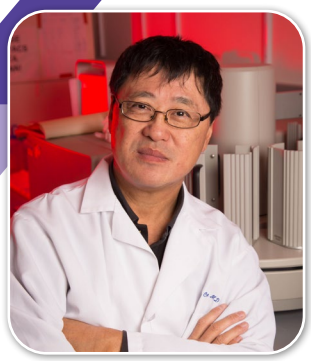
Selected Publications:
•SCI papers up to 508 mainly in pathophysiology and managements of diabetes and its complications, hospital administrations, etc…
(https://pubmed.ncbi.nlm.nih.gov/?term=sheu+WH%2C)

3/23 (六) 10:05-11:05
3 樓 32 教室

Precision Medicine in Diabetes: An Update

許惠恒
Wayne Huey-Herng Sheu

Diabetes has become a major burden of healthcare expenditure globally. It is well recognized that diabetes management following an algorithm treatment is often associated with progressive treatment failure and development of diabetic complications. Recent advances in our understanding of the genomic architecture of diabetes and its complications have provided the framework for development of precision medicine to personalize diabetes prevention and management. From a clinician's perspective one wish to use genetic information to guide diagnosis and management of diabetes. Although major progresses have been made in related field, its applications and pharmacogenetic remained to be implemented. Based on recommendations from task force joined by American Diabetes Association (ADA) and European Association Study of Diabetes (EASD), precision diagnostics, precision therapeutics and precision prognostics are the 3 pillars in realize precision medicine in diabetes . Further researches are also required to ensure the appropriate use of those information to empower individuals and healthcare professionals to make personalized decisions for achieving the optimal outcome.



Speaker/
陳列平
Lieping Chen

Yale University

See More Here

Current Position Title:
UTC Professor in Cancer Research, Professor of Immunobiology and Medicine (Medical Oncology), Yale University School of Medicine, New Haven, Connecticut, USA

Education/Training:
M.D., Fujian Medical University, Fuzhou, China, 1982
Resident in Medicine, Fujian Union Hospital, Fuzhou, China, 1982-83
Fellow, Cancer Hospital, Peking Union Medical College, Beijing, China, 1983-86
M.S. in Immunology, Peking Union Medical College, 1986
Ph.D. in Pathology, Drexel University College of Medicine, Philadelphia, PA, 1989
Postdoctoral Fellow, University of Washington, Seattle, WA, 1989-90

Professional and Research Experience:
2011-present UTC Chair in Cancer Research; Professor of Immunobiology, Medicine (Medical Oncology) and Dermatology; Co-Director, Cancer Immunology Program of Yale Cancer Center (2011-2022); Yale University School of Medicine, New Haven, Connecticut

Awards and Honors:
2023 Fierce 50 Breakthroughs Honoree, Fierce Pharma
2021 Elected Member, National Academy of Sciences USA

Selected Publications:
1. Melero I, Sanmamed MF, Glez-Vaz J, Luri-Rey C, Wang J and Chen L. CD137 (4-1BB)-based cancer immunotherapies on its 25th anniversary. Cancer Discovery 13(3):552-569, 2023
2. Kim TK, Vandsemb EN, Herbst RS and Chen L. Adaptive immune resistance at the tumour site: mechanisms and therapeutic opportunities. Nature Reviews Drug Discovery 21(7):529-540, 2022
3. Zheng L, Han X, Yao S, Zhu Y, Klement J, Wu S, Ji L, Zhu G, Cheng X, Tobiasova S, Yu W, Huang B, Vesely MD, Wang J, Zhang J, Quinlan E and Chen L. The CD8-PILR interaction maintains CD8+ T cell quiescence. Science 376(6596):996-1001, 2022
4. Sun Y, Chen W, Torphy RJ, Yao S, Zhu G, Lin R, Lugano R, Miller EN, Fujiwara Y, Bian L, Zhang L, Anand S, Gao F, Zhang W, Ferrara SE, Goodspeed AE, Dimberg A, Wang XJ, Edil BH, Barnett CC, Schulick RD, Chen L* and Zhu Y*. Blockade of the CD93 pathway normalizes tumor vasculature to facilitate drug delivery and immunotherapy. Science Translational Medicine 13(604):eabc8922, 2021 (*shared senior authors)
5. Wang J, Sun J, Liu L, Flies DB, Nie X, Toki M, Zhang J, Song C, Zarr M, Zhou X, Han X, Archer KA, O'Neil T, Herbst RS, Boto A, Sanmamed MF, Langermann S, Rimm DL and Chen L. Siglec-15 as an immune suppressor and potential target for normalization cancer immunotherapy. Nature Medicine 25(4):656-666, 2019

3/23 (六) 10:20-11:10
3 樓 30 教室

Molecular Basis of Immunologically “cold” Tumor

陳列平
Lieping Chen

More than half of advanced human solid tumors are non-inflamed without significant infiltration of inflammatory cells, especially T lymphocytes. These non-inflamed solid tumors are highly resistant to various immunotherapies. It is largely unknown why and how cancer remains non-inflamed during the progression. I will discuss immunology as well as biology of non-inflamed cancer in the context of potential therapeutic approaches.



Speaker/
洪明奇
Mien-Chie Hung

China Medical University

See More Here

Current Position Title:
President, China Medical University, Taiwan

Education/Training:

1970-1973	B.S., in Chemistry, National Taiwan University, Taipei, Taiwan
1975-1977	M.S., in Biochemistry, National Taiwan University, Taipei, Taiwan
1978-1983	Ph.D., in Biochemistry, Brandeis University, Waltham, U.S.A.
1984–1986	Postdoctoral Fellow, Whitehead Institute/MIT, Cambridge, U.S.A.

Professional and Research Experience:

2019–	President, China Medical University, Taiwan
2010–2019	Vice President for Basic Research, The University of Texas MDACC, U.S.A
2008–2019	Director, Center for Biological Pathways, The University of Texas MDACC, U.S.A
2003–2019	Ruth Legett Jones Distinguished Chair, The University of Texas MDACC, U.S.A
2000–2019	Professor and Department Chair (Founding Chair), Department of Molecular and Cellular Oncology, The University of Texas MDACC, U.S.A

Awards and Honors:
Academician of the Academia Sinica, Taiwan (2002)
Fellow, section of Biological Sciences, AAAS (2010)
Tang Prize selection committee members (2013)
Regents' Outstanding Teaching Award, The University of Texas System (2017)
John P. McGovern Award for Outstanding Teaching, U.T. H.S.C. -Houston (1990, 1993, 1999, 2018) The only faculty member receives the award four times.
Faculty Achievement Award in Education (1993) and in Basic Research (1998, 2017)

Selected Publications:
1. Chunxiao Liu, …, Ning Ren & Hung MC*. Targeting ALK averts ribonuclease 1-induced immunosuppression and enhances anti-tumor immunity in hepatocellular carcinoma. Nature Communication, 2023 (Accepted)
2. Yamaguchi H, Hung MC*. PD-L1 and CD58 co-regulated by CMTM6 play yin and yang to shape anti-tumor immunity. Cancer Cell 2023 S1535-6108(23)00285-4,
3. Chu YY, …, Yu D* and Hung MC*. Targeting the ALK/CDK9-Y19 kinase cascade sensitizes ovarian and breast tumors to PARP inhibition via destabilization of the P-TEFb complex. Nature Cancer 2022 Oct;3(10):1211-1227.

3/23 (六) 11:10-12:00
3 樓 30 教室

Marker-guided Effective Therapy (Mget)

洪明奇
Mien-Chie Hung

Anti-PD-1/PD-L1 therapy is a promising approach in cancer therapy including lung cancer. Glycosylation of PD-L1 is required for its protein stability and interaction with PD-1 (***Nature Comm*** 2016). Impressive therapeutic effect of developed glycosylation-specific PD-L1 mAb was observed through antibody-drug-conjugate approach (***Cancer Cell*** 2018a & ***Cancer Res*** 2020). Through identifying potential targets, we developed marker-guided effective therapy (**Mget**) to enhance therapeutic efficacy and/or overcome drug resistance by combination therapy with immune checkpoint therapy, including metformin (***Mol Cell*** 2018), c-MET inhibitors (***Nature Medicine*** 2016; ***Gastroenterology*** 2019); and targeting IL-6/JAK1 pathway (***J Clin Invest*** 2019), Galectin-9 (***Nature Comm*** 2021, ***IJBS*** 2023a), Tyro 3 (***J Clin Invest*** 2021) and ALK/CDK9-Y19 pathway (***Nature Cancer*** 2022). This talk will also include our discoveries on novel therapy overcoming resistance to EGFR TKI in lung cancer (***Cancer Cell*** 2018b) and other caner types as well as a new methodology to retrieve antigen by protein de-glycosylaton that improves predictive ability of PD-L1 as a biomarker for immunotherapy. (***Cancer Cell*** 2018b, ***Cancer Cell*** 2018c, ***Cancer Cell*** 2019, ***AJCR*** 2022a, ***Nature Reviews Clinical Oncology*** 2022, ***Nature***, 2020, ***Nat. Cell Biol*** 2020; ***Mol Cell*** 2021, ***IJBS*** 2023a,b,c, ***JCI*** 2023, ***Nature Comm*** 2023). We will also share with our recent unpublished data for markers-guided effective therapy.



Speaker/
Arlene H. Sharpe

Harvard University, Harvard Medical School

See More Here

Current Position Title:
Kolokotrones University Professor, Harvard University
Chair, Department of Immunology, Harvard Medical School
Vice Director, Gene Lay Institute of Immunology and Inflammation, Brigham & Women's Hospital, Massachusetts General Hospital, and Harvard Medical School

Education/Training:
AB Biochemistry; Radcliffe College, Cambridge, MA
PhD Microbiology; Harvard University, Cambridge, MA
MD Harvard Medical School, Boston, MA

Professional and Research Experience:
2023-Present Kolokotrones University Professor, Harvard University
2023-Present Vice Director, Gene Lay Institute of Immunology & Inflammation, BWH, MGH, HMS
2019-Present Member, Broad Institute

Awards and Honors:
2022 FASEB Excellence in Science Lifetime Achievement Award
2022 American Association of Immunologists, Lifetime Achievement Award
2022 American Society for Investigative Pathology Rous-Whipple Award
2020 Richard Smalley Award and Lectureship, Society for Immunotherapy of Cancer
2018 Elected Member, National Academy of Science and National Academy of Medicine
2014 William B. Coley Award for Distinguished Research in Tumor Immunology

Selected Publications:
1. Freeman GJ, et al. Uncovering of functional alternative CTLA-4 counter-receptor in B7-deficient mice. Science. 1993 Nov 5;262(5135):907-9. PMID: 7694362.
2. Tivol EA, et al. Loss of CTLA-4 leads to fatal multiorgan tissue destruction, revealing a critical negative regulatory role of CTLA-4. Immunity. 1995 3(5):541-7 PMID: 7584144
3. Latchman Y, et al. PD-L2 is a second ligand for PD-1 and inhibits T cell activation. Nat Immunol. 2001 Mar;2(3):261-8. PMID: 11224527
4. Keir et al. Tissue expression of PD-L1 mediates tissue tolerance. J Exp Med 2006 203:883-895. PMID: 16606670
5. Sage et al. The receptor PD-1 controls follicular regulatory T cells in the lymph node and blood. Nat Immunol. 2013 14:152-61. PMID: 23242415

3/23 (六) 13:10-14:00
3 樓 30 教室

The Biology Behind PD-1 Checkpoint Blockade

Arlene H. Sharpe

The PD-1 pathway consists of the Programmed Death (PD)-1 receptor and its two ligands, PD-L1 (B7-H1; CD274) and PD-L2 (B7-DC; CD273). The PD-1 pathway delivers inhibitory signals that function as a brake for immune responses and has wide-ranging immunoregulatory functions. Signals through the PD-1 pathway regulate the critical balance between stimulatory and inhibitory signals needed for effective immune responses to microbes and tumors, as well self-tolerance. The critical role of PD-1 in preventing antitumor immunity is demonstrated by the transformative effects of PD-1 pathway blockade in a broad range of cancers. Although PD-1 pathway inhibitors are revolutionizing cancer treatment, the mechanisms by which PD-1 exerts its immunoregulatory functions are not fully understood. Further work is needed to understand mechanisms by which PD-1 pathway blockade induces anti-tumor immunity, and why PD-1 pathway blockade works or fails. This knowledge is needed to identify those who will benefit from PD-1 cancer immunotherapy and to develop rational combination therapies. This talk will discuss studies in mouse models that have identified mechanisms by which PD-1 and its ligands control T cell tolerance and anti-tumor T cell responses, and gene perturbation approaches to discover new cancer immunotherapy targets and their mechanisms of action.



Speaker/

邱文泰
Wen-Tai Chiu

Department of Biomedical Engineering, National Cheng Kung University

Current Position Title:
Professor & Department Chair

Education/Training:
1993-1997 B.S., Department of Life Sciences, National Cheng Kung University, Taiwan
1997-1999 M.S., Department of Physiology, National Cheng Kung University, Taiwan
2002-2007 Ph.D., Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan

Professional and Research Experience:
08/2020-present Professor, Department of Biomedical Engineering, NCKU
02/2016-07/2020 Associate Professor, Department of Biomedical Engineering, NCKU
08/2012-01/2016 Assistant Professor, Department of Biomedical Engineering, NCKU

Awards and Honors:
2023/2019/2017 Outstanding Teaching Award, National Cheng Kung University
2016 Award for Excellence in Tutoring, Department of Biomedical Engineering, NCKU
2015 Outstanding Research Award, College of Engineering, NCKU
2015 Raising Star of Young Faculty, College of Engineering, NCKU

Selected Publications:
1. Lai, Y.S., Chan, T.W., Nguyen, T.M.H., Lin, T.C., Chao, Y.Y., Wang, C.Y., Hung, L.Y., Tsai, S.J. and Chiu, W.T.* (2023 Dec) Store-operated calcium entry inhibits primary ciliogenesis via the activation of Aurora A. FEBS Journal Online ahead of print.
2. Chang, H.A., Ou Yang, R.Z., Su, J.M., Nguyen, T.M.H., Sung, J.M., Tang, M.J. and Chiu, W.T.* (2023 Oct) YAP nuclear translocation induced by HIF-1α prevents DNA damage under hypoxic conditions. Cell Death Discovery 9(1):385.
3. Lin, Y.S., Huang, W.H., Hsu, K.F., Tang, M.J.* and Chiu, W.T.* (2023 Sep) Reversion of chemoresistance by endocannabinoid-induced ER stress and autophagy activation in ovarian cancer. American Journal of Cancer Research 13(9):4163-4178.

3/24 (日) 10:20-11:00
2 樓 20 教室

Optogenetically-Engineered Calcium Signaling Regulating Mitochondrial Fission and Cell Death

邱文泰
Wen-Tai Chiu

Mitochondrial dynamics regulate the quality and morphology of mitochondria. Calcium (Ca2+) plays an important role in regulating mitochondrial function. Here, we investigated the effects of optogenetically engineered Ca2+ signaling on mitochondrial dynamics. More specifically, customized illumination conditions could trigger unique Ca2+ oscillation waves to trigger specific signaling pathways. In this study, we found that modulating Ca2+ oscillations by increasing the light frequency, intensity, and exposure time could drive mitochondria toward the fission state, mitochondrial dysfunction, autophagy, and cell death. Moreover, illumination triggered phosphorylation at the Ser616 residue, but not the Ser637 residue of the mitochondrial fission protein, dynamin-related protein 1 (DRP1), via the activation of Ca2+-dependent kinases, CaMKII, ERK, and CDK1. However, optogenetically engineered Ca2+ signaling did not activate calcineurin phosphatase to dephosphorylate DRP1 at Ser637. In addition, light illumination had no effect on the expression levels of the mitochondrial fusion proteins, mitofusin (MFN)-1 and MFN2. Taken together, this study provides an effective and innovative approach to altering Ca2+ signaling for controlling mitochondrial fission with a more precise resolution than pharmacological approaches in the temporal dimension.



Speaker/

劉仁賢
Ren-Shyan Liu

Cheng Hsin General Hospital

Current Position Title:
Chief

Education/Training:
Fellow, Medical Care of Radiation Accident and Radiation Medicine, ORNU, USA
Fellow, PET Center in Iowa University Hospital, U.S.A.
Fellow, PET Center in KAFA, Julich and Department of Neurology, Köln University Hospital, Germany
Fellow, PET Center in the Institute of Neurology, McGill University, Canada

Professional and Research Experience:
Nuclear Medicine Diagnosis and Therapy, Molecular Imaging

Awards and Honors:
Cancer Molecular Imaging, Molecular Imaging of Degenerative Brain Disorders (Alzheimer's Disease, Parkinson's Disease), Reporter Gene Imaging, Exosomes in Disease Diagnosis and Therapy, Targeting Radionuclide Nanodrugs in Theranostics

Selected Publications:
1. Chen YA, Li JJ, Lin SL, Lu CH, Chiu SJ, Jeng FS, Chang CW, Yang BH, Chang MC, Ke CC, Liu RS*. Effect of Cerenkov Radiation-Induced Photodynamic Therapy with 18F-FDG in an Intraperitoneal Xenograft Mouse Model of Ovarian Cancer. Int. J. Mol. Sci. 2021, 22(9), 4934 (IF: 4.556)
2. Chen YA, Lu CH, Ke CC, Chiu SJ, Jeng FS, Chang CW, Yang BH, Liu RS*. Mesenchymal Stem Cell-Derived Exosomes Ameliorate Alzheimer's Disease Pathology and Improve Cognitive Deficits. Biomedicines 2021, 9, 594. (IF: 4.717)
3. Chen YA, Lu CH, Ke CC, Chiu SJ, Chang CW, Yang BH, Gelovani JG, Liu RS*. Evaluation of Class IIa Histone Deacetylases Expression and In Vivo Epigenetic Imaging in a Transgenic Mouse Model of Alzheimer's Disease; Int. J. Mol. Sci. 2021;22(16), 8633.
4. Chen YA, Ho CL, Ku MT, Hue L, Lu CH, Chiu SJ, Chang WY and Liu RS*. Detection of Cancer Stem Cells by EMT-Specific Biomarker-based Peptide Ligands. Scientific Reports 2021;17;11(1):2243, 2021 (SCI, 2020 IF=4.38, Q1)
5. Lu CH, Chen YA, Ke CC, Chiu SJ, Jeng FS, Chen CC, Hsieh YJ, Yang BH and Liu RS*. Multiplexed molecular imaging strategy integrated with RNA sequencing in the assessment of the therapeutic effect of Wharton's jelly mesenchymal stem cells derived extracellular vesicles for osteoporosis. International Journal of Nanomedicine 2021; article in press, 2021 (SCI, 2020 IF=6.4, Q1)

3/24 (日) 11:00-11:40
2 樓 20 教室

Advances in Molecular Imaging of Exosomes

劉仁賢
Ren-Shyan Liu

Exosomes have biological functions as nanocarriers for intercellular communications. Exosomes modulate homeostasis, immune response and angiogenesis, and many physiological and pathological process between cells. Exosomes are able to migrate, target, and elective internalize into specific cells, and subsequently have been considered as promising delivery vectors and may serve as an alternative to cell-based therapy. Tracking exosomes in vivo can provide important information of their biodistribution, migration abilities, toxicity, biological role, intercellular communication capabilities, and mechanism of action. Efficient, sensitive and biocompatible exosome labeling and imaging techniques are essential for the in vivo tracking of exosomes. Recent advances of different methods for exosome labeling and imaging for in vivo investigation of bio-distribution, physiological functions, migration, and targeting mechanisms will be reviewed with special focus on the translating exosome therapy to the clinic, which requires a reliable, non-invasive, exosome in vivo imaging technique for assessing the functionality, viability and trafficking of the exosomes within the body. The advances of current available imaging technologies including optical, MRI, nuclear medicine imaging, and photo acoustic imaging will be addressed and discussed.



Speaker/

張智芬
Zee-Fen Chang

National Taiwan University
台灣大學

See More Here

Current Position Title:
Chair Professor

Education/Training:
Institute of Biochemistry, Ph.D., Rutgers University, NJ, USA.

Professional and Research Experience:
2016- present Professor, Institute of Molecular Medicine, National Taiwan University
2010- 2016 Professor, Institute of Biochemistry and Molecular Biology, National Yang-Ming University
1997-2010 Professor, Institute of Biochemistry and Molecular Biology, College of Medicine, National Taiwan University
1996-1997 Professor, Department of Biochemistry, Chang Gung University, Taiwan
1988-1996 Associate professor, Department of Biochemistry, Chang Gung University

Awards and Honors:
Education Ministry Academic Award
Education Ministry National Chair Award

Selected Publications:
1. Su YA, Chiu HY, Chang YC, Sung CJ, Chen CW, Reika Tei, Huang XR, Hsu SC, Lin SS, Wang HC , Lin YC, Hsu JC, Hermann Bauer, Yuxi Feng, Jeremy M Baskin, Chang ZF*, Liu YW* (2023, Oct). NME3 binds to phosphatidic acid and mediates PLD6-induced mitochondrial tethering. J Cell Biol (2023) 222:e202301091.
2. Shih, HS., Chen, WY., Wang, HY., Chao, T, Huang HD, Chou CH, and Chang ZF. DNMT3b protects centromere integrity by restricting R-loop-mediated DNA damage. Cell Death and Disease 13:546-560,2022
3. Chao T, Shih ST, Hsu SC, Chen PJ, Fan YS, Jeng YM, Shen ZQ, Tsai TF, and Chang ZF. Autophagy Restricts Mitochondrial DNA damage-induced Release of Endonuclease G to Regulate Genome Stability. Autophagy 17:3444-3460, 2021
4. Wang HY, Hsin P, Huang CY, Chang ZF. A convenient and sensitive method for deoxynucleoside triphosphates quantification by the combination of RCA and qPCR. Anal. Chem. 93: 14247-14255, 2021

3/23 (六) 10:10-11:00
3 樓 33 教室

A Nucleotide Enzyme Moonlights as a Gatekeeper Required for Mitochondrial Quality Control

張智芬
Zee-Fen Chang

NME3 is a member of nucleoside diphosphate kinase (NDPK) family, which generates nucleoside triphosphates (NTPs). We previously found that knockdown of NME3 suppressed DNA repair without affecting dNTP pools. The mechanistic investigation let us discover NME3's function in mitochondrial fusion independent of the catalytic function, which influences genome stability. The catalytic function of NME3 was further investigated by knock-in mutation that disrupts active site histidine phosphorylation of the Nme3 gene in mice. These mice appear vulnerable to ischemia/reperfusion-induced infarction and develop abnormalities in cerebellar function. In this talk, I will present molecular evidence to explain why the catalytic histidine of NME3 is important in the maintenance of healthy mitochondria in response to external and internal stress. The mechanistic study reveals that NME3 acts as a gatekeeper for the segregation of mitochondrial damaged subdomain for degradation, thus keeping a healthy population of mitochondria. This process involves its lipid binding and probably histidine kinase but NOT NDPK function.



Speaker/
陳鈴津
Alice L. Yu

Distinguished Chair Professor, Institute of Stem Cell & Translational Cancer Research, CGMH at Linkou and Chang Gung Univ.

Current Position Title:
Distinguished Chair Professor, Institute of Stem Cell & Translational Cancer Research, CGMH at Linkou and Chang Gung Univ. Taiwan
Professor Emeritus, Department of Pediatrics, Univ. of California in San Diego

Education/Training:
Ph.D. Microbiology/Immunology, Univ. of Chicago
M.S. Graduate School, Yale Univ.
M.D. College/Professional School, NTU

Professional and Research Experience:
2013-present Distinguished Chair Professor, Institute of Stem Cell & Translational Cancer Research, CGMH at Linkou and Chang Gung Univ. Taiwan
2003-2013 Distinguished Research Fellow and Associate Director, Genomics Research Center, Academia Sinica.
1977-2003 Assistant Professor to Professor and Chief of Pediatric Hematology / Oncology, Univ. of California in San Diego, USA

Awards and Honors:
2020 2020 ASCO Award-Pediatric Oncology/Award and Lecture
2020 The 2020 National Innovation Award (together with Dr. J. Yu)
2016 Academician, Academia Sinica, Taiwan
2011 The 55th Academic Award from the Ministry of Education
2009 The 19th Wang Min-Ning Memorial Award for Outstanding Contribution to the Development Medical Science and Technology, National Health and Society
2001 Year 2000 "Key to Life" Award from the Leukemia & Lymphoma Society
1997 Biotech All-Stars, San Diego Padre, Qualcomm Stadium

3/24 (日) 10:40-11:20
3 樓 30 教室

Seeking Therapeutic Targets for Cancer Immunotherapy

陳鈴津
Alice L. Yu

Cancer immunotherapy has become one of the most flourishing fields in medicine. However, the number of targets for the approved cancer immunotherapy has remained small, and limited to proteins. The approval of Dinutuximab, an anti-GD2 antibody, in 2015 for treating high-risk neuroblastoma marks the first new agent targeting a glycolipid molecule, largely based on the pioneer work of Dr. Yu. The benefit of immunotherapy with anti-GD2 has been confirmed in the long term follow up of the pivotal phase III randomized trial and a large cohort (n=1183) of non-randomized study. Strategies to improve its efficacy by combination with chemotherapy or anti-PD1, humanization of anti-GD2, and GD2-CAR cell therapy are under development. An antibody against 9- O-acetyl derivative of GD2 (OAcGD2) which was highly expressed in neuroectodermal tumors but not normal neurons, displayed significant anti-tumor efficacy without neuropathic pain associated with anti-GD2. Her group demonstrated OAcGD2 to be a novel marker for breast cancer stem cells (CSC) and anti-OAcGD2 may target CSC to reduce cancer metastasis and recurrence.

Another glycolipid, Globo H, is the most prevalent cancer-associated antigens and an ideal target for cancer immunotherapy. Clinically, expression of Globo H has been reported in 7 types of epithelial cancers. High expression of Globo H is an independent poor prognostic factor for breast cancer, hepatoma, cholangiocarcinoma and gallbladder cancer. Her group has provided the scientific rationales for targeting Globo H for cancer immunotherapy, based on its triple roles in serving as a cancer antigen (including breast cancer stem cells), as an immune checkpoint and as an angiogenic factor. Mechanistic investigations linked its angiogenic effects to its binding to TRAX, thereby releasing PLCb1 from TRAX to trigger Ca2+ mobilization. A randomized phase II trial of Globo H-KLH vaccine in metastatic breast cancer showed improved progression free survival in patients who mounted anti-Globo H immune responses, thereby providing the basis for the ongoing global phase III trial. In addition to Globo H, her group demonstrated the clinical significance of other globo-series glycosphingolipids (GSL) as well as their biosynthetic glycosyl-transferases in several cancers.

Furthermore, in collaboration with Dr. John Yu, they have identified universal cancer targeting peptides (CTP) through screening phage display peptide library and developed CTP-bispecific antibody which can target cancer stem cells. Using glycoproteomic analyses of hESC, they identified ESC-02 to be a marker for cancer stem cells (CSC). Moreover, using comparative phosphoproteomics of CSC and non-CSC, they have unveiled several novel markers for CSCs, such as SHIP2, GPER, FMB129B and ESC-03. The molecular mechanisms involved in their regulation of CSCs have also been elucidated. Currently, they are in the process of developing antibody-drug conjugate and CAR-NK to target some of these markers as the first-in-class CSC-targeted immunotherapeutics.



Speaker/
崔萬豪
Man-Ho Choi

Korea Institute of Science and Technology

Current Position Title:
Principal Scientist, Korea Institute of Science and Technology, Korea

Education/Training:
Ph.D. in Bioanalytical Chemistry, Sungkyunkwan University, Korea, 1998~2002
Post-doctoral Associate, MIT, USA, 2002~2004

Professional and Research Experience:
Principal Scientist, Korea Institute of Science and Technology, Korea, 2004~present
Associate Editor, Journal of Steroid Biochemistry and Molecular Biology, 2013~present

Awards and Honors:
Plenary Speaker, Japan Endocrine Society, Sendai/Japan, 2019
Visiting Professor, Tohoku University Graduate School of Medicine, Japan, 2023~present

Selected Publications:
1. Multiplexed serum steroid profiling reveals metabolic signatures of subtypes in congenital adrenal hyperplasia . J. Endocr. Soc., 8, 1-9 (2024)
2. LC-MS based simultaneous profiling of adrenal hormones of steroids, catecholamines, and metabephrines. J. Lipid Res., 64, 100453 (2023)
3. Obesity promotes breast epithelium DNA damage in women carrying a germline mutation in BRCA1 or BRCA 2. Sci. Transl. Med., 15, eade1857 (2023)

3/23 (六) 10:00-11:00
3 樓 31 教室

Steroid Profiling in The Assessment of Adrenal and Gonadal Functions

崔萬豪
Man-Ho Choi

The altered metabolic signatures of steroids may characterize sexual dimorphism and adrenal disorders. However, conventional hormone assays are limited in precise quantification and distinguishing steroid molecules, particularly in diagnostic methodologies that necessitate multi-step processes, such as imaging analysis and dynamic hormone tests. In contrast, mass spectrometry-based profiling of steroids has emerged as a comprehensive tool in various biomedical and clinical sciences.

We performed steroid profiling in animal models to identify sexual development within gonadal functions. In addition, our investigation to human patients with adrenal disorder, encompassing various subtypes of congenital adrenal hyperplasia and adrenal incidentalomas was extended. Moreover, the integration of adrenal cortical steroid profiling with medullary catecholamines significantly improved diagnostic accuracy in categorizing adrenal diseases.

This presentation outlines the recent advances in steroid analysis within biomedical sciences and underscores the potential of a steroid panel in optimizing the accurate diagnosis of adrenal diseases. Such an approach holds the promise of facilitating improved patient care and enhancing clinical outcomes through a single analytical run.



Speaker/
陳璿宇
Hsuan-Yu Chen

Institute of Statistical Science, Academia Sinica

Current Position Title:
1. Research Fellow, Institute of Statistical Science, Academia Sinica
2. President, Taiwan Society of Precision Health and Toxicogenomics
3. Secretary- general, Taiwan Genomics and Genetics Society

Education/Training:
2003-2007 Ph.D., Graduate Institute of Epidemiology, National Taiwan University, Taiwan

Professional and Research Experience:
1. 2008-2023 Assistant, Associate Research Fellow, Institute of Statistical Science, Academia Sinica
2. 2018-2019 Chief Scientist, Acer Inc.

Awards and Honors:
1. The 17th Wang Ming-Ning Memorial Foundation award for outstanding Ph.D. dissertation, 2007
2. Distinguished Contribution Award in Technology Transfer, National Science Council, Taiwan, 2008
3. Significant Research Achievements of Academia Sinica, 2007, 2008, 2012, 2013, 2015, 2020

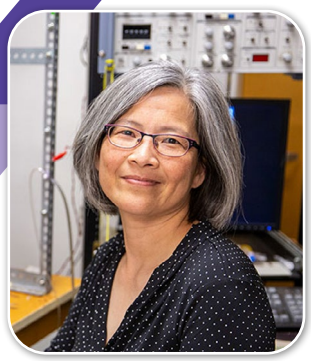
Selected Publications:
1. Yi-Ju Chen, Theodoros I. Roumeliotis, Ya-Hsuan Chang, …, Hsuan-Yu Chen*, Pan-Chyr Yang, Yu-Ju Chen, 2020, "Proteogenomics of Non-smoking Lung Cancer in East Asia Delineates Molecular Signatures of Pathogenesis and Progression", Cell, 182, 226-244. (IF: 64.5, 0.7%) Corresponding author
2. Poyin Huang, Yuan-Han Yang, Ya-Hsuan Chang, Shu-Ling Chang, Mei-Chuan Chou, Chiou-Lian Lai, Ching-Kuan Liu, Hsuan-Yu Chen*, 2020, "Association of early-onset Alzheimer's disease with germline-generated high affinity self-antigen load", Translational Psychiatry, 10, 146. (IF: 6.8, 18.7%) Corresponding author
3. Chen HY, Yu SL, Ho BC, …, Chang GC, Yang PC, Li KC, 2015, "R331W Missense Mutation of Oncogene YAP1 Is a Germline Risk Allele for Lung Adenocarcinoma With Medical Actionability.", Journal of Clinical Oncology, 33, 2303-2310. (IF: 45.3, 2.9%)
4. Chen HY, Yu SL, Chen CH, Chang GC, Chen CY, Yuan A, Cheng CL, Wang CH, Terng HJ, Kao SF, Chan WK, Li HN, Liu CC, Singh S, Chen WJ, Chen JJ, Yang PC, 2007, "A five-gene signature and clinical outcome in non-small-cell lung cancer.", New England Journal of Medicine, 356, 11-20. (IF: 158.5, 1.2%)

3/23 (六) 10:40-11:40
2 樓 29 教室

Exposome, Genome Editing, Tumorigenesis, and Precision Immuno-Oncology

陳瑄宇
Hsuan-Yu Chen

High throughput sequencing methods enable us to determine the changes/variations in different molecular levels such as genome, transcriptome, epigenome etc. It is a very powerful tool in the precision medicine era. However, the data generated from the high throughput sequencer is huge and complex. It reaches the difficulty for explorations of the key findings. Our core competency is based on the concepts and analytical methods of the data science to reveal the important patterns from the big and complex molecular data. Several critical problems are addressed in our works in past years. We reported the first evidences of associations between exogenous-exposome (environmental carcinogens) and tumorigenesis in never-smoking lung adenocarcinoma (LUAD). The endogenous-exposome named APOBEC was obtained in the early onset non-smoking female LUAD and showed higher response to the immuno-therapies. Based on the mutatome and aberrant transcriptome data, we have the progress in the precision immuno-oncology. We developed the neo-antigen (neoAg) prediction method and used it to generate the personalized cancer intelligent vaccine. The first indications of above personalized cancer therapeutic vaccine are pancreatic cancer and lung cancer. The phase 1 clinical trials applications had been approved by the TFDA and IRB of the hospitals.



Speaker/
邢秀玲
Show-Ling Shyng

Oregon Health and Science University

Current Position Title:
Professor, Department of Chemical Physiology and Biochemistry

Education/Training:
B.S. 1984, National Taiwan University, Taipei, Taiwan
Ph.D. 1990, Cornell University, Ithaca NY, USA
Postdoc. 1990-1991, California Institute of Technology, Pasadena CA, USA
Postdoc. 1991-1996, Washington University, St. Louis, MO, USA

Professional and Research Experience:
2008-present, Professor, Oregon Health & Science University, Portland OR, USA
2005-2008, Associate Professor, Oregon Health & Science University, Portland OR, USA
1999-2005, Assistant Professor, Oregon Health & Science University, Portland OR, USA
1996-1999, Research Assistant Professor, Washington University, St. Louis MO, USA

Awards and Honors:
1986 Cornell University Biotechnology Program Fellowship
1990 Drown Postdoctoral fellowship, California Institute of Technology
1992 McDonnell Center for Cellular and Molecular Neurobiology Postdoctoral fellowship, Washington Univ
1997 Career Development Award, the American Diabetes Association

Selected Publications:
1. Driggers CM, Kuo YY, Zhu P, ElSheikh A, Shyng SL. Structure of an open K ATP channel reveals tandem PIP2 binding sites mediating the Kir6.2 and SUR1 regulatory interface. bioRxiv [Preprint]. 2023 Aug 1:2023.08.01.551546. doi: 10.1101/2023.08.01.551546. PMID: 37577494
2. Driggers CM and Shyng SL. (2023). Mechanistic insights on K_{ATP} channel regulation from cryo-EM structures. (2023) J. Gen. Physiol. 155: e202113046. doi: 10.1085/jgp.202113046. PMID: 36441147
3. Sung MW, Driggers CM, Mostofian B, Russo JD, Patton BL, Zuckerman DM, and Shyng SL. (2022). Ligand-mediated structural dynamics of a mammalian pancreatic K_{ATP} channel. Journal of Molecular Biology. 434: 167789. doi: 10.1016/j.jmb.2022.167789. PMID: 35964676
4. Martin GM, Sung MW, Yang Z, Innes LM, Kandasamy B, David LL, Yoshioka C, Shyng SL. (2019). Mechanism of pharmacochaperoning in a mammalian K_{ATP} channel revealed by cryo-EM. eLife 8:e46417. Doi: 10.7554/eLife.46417. PMID: 31343405
5. Martin GM, Kandasamy B, DiMaio F, Yoshioka C, Shyng SL. (2017). Anti-diabetic drug binding site in K_{ATP} channels revealed by cryo-EM. eLife, 6: e31054. Doi:10.7554/eLife.31054.
6. Martin GM, Yoshioka C, Rex EA, Fay JF, Xie Q, Whorton MR, Chen JZ, Shyng SL. (2017). Cryo-EM structure of the ATP-sensitive potassium channel illuminates mechanisms of assembly and gating. eLife, 6: e24149. Doi: 10.7554/eLife.24149.

3/23 (六) 10:00-11:00
1 樓 第二教室

Structural Mechanism of K_{ATP} channel Physiology, Pathophysiology, and Pharmacology

邢秀玲
Show-Ling Shyng

K_{ATP} channels are unique macromolecular assemblies of four pore-forming potassium channel subunits, Kir6.1 or Kir6.2, and four regulatory subunits SUR1, SUR2A or SUR2B (splice variants of SUR2) in the ABC transporter family. Broadly expressed in many cell types and tissues, K_{ATP} channels couple changes in cellular metabolic activity with membrane excitability to control a wide range of physiological processes, from hormone secretion, vasodilation, protection of cardiac and neuronal tissues against ischemic injuries, to learning and memory. Mutations in genes encoding K_{ATP} channel subunits are linked to a number of human diseases, including congenital hyperinsulinism, neonatal diabetes, DEND syndrome, and Cantú syndrome. Physiological activity of K_{ATP} channels is regulated by intracellular ATP and ADP. Non-hydrolytic binding of ATP to Kir6 inhibits channel activity, while MgATP and MgADP binding to the nucleotide binding domains (NBDs) of SUR1 stimulates channel activity. Besides ATP and ADP, membrane phospholipids in particular PIP2 stimulates channel activity. In addition, pharmacological inhibitors and activators act on SUR proteins to modulate channel activity. How K_{ATP} channels subunits work together to decipher signals from various physiological and pharmacological ligands for gating, and how mutations disrupt channel function, are major questions that have been under decades of intensive investigation. Recent advances in single-particle cryoEM techniques have enabled visualization of the three-dimensional structures of K_{ATP} channels at near atomic resolution. The structures reported to date have significantly advanced our understanding of the molecular mechanisms underlying K_{ATP} channel physiology, pathophysiology, and pharmacology. The knowledge paves the way for structure-based design of K_{ATP} isoform-specific therapeutics to treat human diseases caused by dysfunction of various K_{ATP} channel isoforms.



Speaker/
陳儀莊
Yi-Juang Chern

Institute of Biomedical Sciences, Academia Sinica

Current Position Title:
Deputy Minister, National Science and Technology Council, Taiwan
Distinguished Research Fellow, Institute of Biomedical Sciences, Academia Sinica, Taiwan

Education/Training:
B.S., Agricultural Chemistry, National Taiwan University, Taipei, Taiwan, R.O.C.
Ph. D., Molecular & Cellular Biology, Univ. of Massachusetts, Amherst, MA, USA

Professional and Research Experience:
1991-Present, Assistant Research Fellow- Distinguished Research Fellow, Institute of Biomedical Sciences, Academia Sinica, Taiwan

Awards and Honors:
- Young Investigator Award, Academia Sinica (1998)
- Research Outstanding Award, National Science Council (1999-2000, 2001-2002, 2002-2004)
- The Tien Te Lee Biomedical Foundation Outstanding Award (2014)
- Academia Sinica Investigator Award, Academia Sinica, Taiwan (2014-2018, 2019-2023)
- 侯金堆傑出榮譽獎 (2022)

Selected Publications:
1. Siew JJ, Chen H-M, Chen H-Y, Chen H-L, Chen C-M, Soong B-W, Wu Yih-Ru, Chang C-P, Chan Y-C, Lin C-H, Liu F-T and Chern YJ (2019) Galectin-3 is required for the microglia-mediated brain inflammation in Huntington's disease. Nature Communications 10, 3473-3490.
2. Siew JJ, Chen H-M, Chiu F-L, Lee C-W, Chang Y-M, Chen H-L, Nguyen TNA, Liao H-T, Liu M, Hagar H-T, Sun Y-C, Lai H-L, Kuo M-H, Blum D, Buee L, Jin L-W, Chen S-Y, Ko T-M, Huang J-r, Kuo H-C, Liu F-T, Chern YJ (2023) Galectin-3 aggravates microglial activation and tau transmission in tauopathy. Journal of Clinical Investigation doi: 10.1172/JCI165523.

3/23 (六) 14:00-15:00
1 樓 第一教室

Microglial Galectin-3 and Neuroinflammation – with A Specific Focus on Neurodegenerative Diseases

陳儀莊
Yi-Juang Chern

Microglia serve as the brain's immune guardians. Overactivation of microglia is closely linked to neurodegeneration. Galectin-3 (Gal3), a protein that binds with β-galactoside, has been extensively studied in numerous peripheral system diseases, including lung scarring, various cancers, and heart and kidney failures. Recently, due to its elevated levels in activated microglia, Gal3 has garnered significant attention in the field of neuroscience. In this presentation, I will discuss how human iPSC-derived microglia-like cells respond to exposure to the pathogenic tau protein—a key factor in neurodegeneration—and how they contribute to the spread of this harmful tau protein in the brain via a Gal3-dependent pathway. Considering the connection between microglial activation and various brain disorders, our insights into Gal3's pathogenic role could deepen our understanding of microglial reactions to misfolded proteins. This knowledge can further guide the development of treatments that target Gal3 in neurodegenerative diseases, such as Huntington's and Alzheimer's, which are characterized by the accumulation of misfolded proteins that cause disease and inflammation driven by microglia.

38th 生物醫學聯合學術年會

2024 The 38th Joint Annual Conference of Biomedical Science

研討會演講

Symposia



中華民國解剖學學會

主 題 ：解剖教學
時 間 ：113 年 3 月 23 日 (六)
地 點 ：3 樓，第 32 教室
主持人：徐佳福 教授

時段	講題 & 講者
14:00-15:30	Speaker: 陳玉怜 所長 /Department of Anatomy and Cell Biology, College of Medicine, National Taiwan University
	Speaker: 鄭瓊娟 所長 /Institute of Anatomy and Cell Biology, National Yang Ming Chiao Tung University
	The Silent Mentor Program of Tzu Chi University: Teaching, Learning and Beyond Speaker: 曾國藩 主任 /Department of Anatomy, College of Medicine, Tzu Chi University

主 題 ：細胞醫學 & 神經醫學
時 間 ：113 年 3 月 24 日 (日)
地 點 ：3 樓，第 32 教室
主持人：傅毓秀 教授

時段	講題 & 講者
14:00-15:30	Shear-Induced CCN1 Promotes Atheroprone Vascular Cell Phenotypes And Atherosclerosis Speaker: 莫凡毅 教授 /Department of Cell Biology and Anatomy, National Cheng Kung University
	Cellular and Molecular Mechanisms Underlying Peripheral Neuropathy Speaker: 甘祐瑜 副教授 /School of Medicine, College of Medicine, National Sun Yat-sen University
	Interaction of Speech- and Language-Linked Mutant Gene and Motor Protein Underlying Striatal Wiring of Vocal Communication Speaker: 郭曉縈 助理教授 / Institute of Anatomy and Cell Biology, National Yang Ming Chiao Tung University

中華民國免疫學會 X 中華民國細胞及分子生物學學會

主 題 ：Tumor Immunity
時 間 ：113 年 3 月 23 日 (週六)
地 點 ：3 樓，30 教室
主持人：張智芬 特聘教授

時段	講題 & 講者
14:00-14:30	Aryl Hydrocarbon Receptor Regulates Cross-presentation in Type 1 Conventional DC and Augments Cancer Immunotherapy Speaker: 李永凌 研究員 / Institute of Biomedical Sciences, Academia Sinica
14:30-15:00	Next-Generation Nanoscale Carriers for Enhanced Cancer Immunotherapy Speaker: 陳韻晶 教授 / National Tsing Hua University

中華民國免疫學會 X
國科會 X 中華民國臨床生化學會

時 間 ：113 年 3 月 24 日 (週日)
地 點 ：1 樓，可勝廳
主持人：徐立中 教授

時段	講題 & 講者
13:30-15:00	The Role of Innate Lymphocytes and Netosis In Steroid-Resistant Asthma Speaker: 張雅貞 研究員 / Institute of Biomedical Sciences, Academia Sinica, Taiwan
	Deciphering Radioresistance: The Impact of SERPINE1 in Obesity-Associated Triple-negative Breast Cancer Speaker: 郭靜穎 副教授 / Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University

台灣分子生物影像學會

時 間：113 年 3 月 23 日 (週六)
地 點：2 樓，20 教室

時段	講題 & 講者
14:30-15:00	主持人 : 蘇家豪 教授 Interruption of Tumor-Bone Marrow-Axis By Radiation Induces Abscopal Effect in Lung Metastatic Mouse Model Speaker: 劉欣怡 助理教授 / China Medical University
15:30-16:00	主持人 : 黃文盛 教授 Non-Invasive Atherosclerosis Imaging - Review and Prospect Speaker: 夏建忠 研究員 / National Atomic Research Institute
16:00-16:30	主持人 : 陳賢燁 教授 New Era of "AI-Human Team" in Radiology Speaker: 盧家鋒 副教授 / National Yang Ming Chiao Tung University
16:30-17:00	主持人 : 廖愛禾 教授 Spot the Unseen: Pioneering Early Cancer Detection with Synthetic Biomarkers Speaker: 莊惠燕 助理教授 / National Yang Ming Chiao Tung University

台灣生物化學及分子生物學學會

主 題 ：TSBMB Session I: Gene Editing and Regulation In Biomedical Research
時 間 ：113 年 3 月 23 日 (週六)
地 點 ：3 樓，33 教室
主持人：楊長賢 講座教授 / 中興生技所

時段	講題 & 講者
15:00-15:30	Probing The Immune Regulatory Network In Human Natural Killer Cells By Genome-Wide CRISPR Screens Speaker: 凌嘉鴻 助研究員 / Institute of Biological Chemistry, Academia Sinica
15:30-16:00	Mechanism of Oncogenic Fusion Proteins in Leukemia Speaker: 陳威儀 副教授 / National Yang Ming Chiao Tung University, Institute of Biochemistry and Molecular Biology
16:10-16:40	CRISPR Gene Editing and Regulation for Tissue Regeneration Speaker: 胡育誠 教授 / National Tsing Hua University
16:40-17:10	Genome Editing in Medicine and Agriculture Speaker: Dr. Wilhelm Gruissem / Biotechnology Center, National Chung Hsing University

主 題 ：TSBMB Session II: Aging and Age-Related Disease
時 間 ：113 年 3 月 24 日 (週日)
地 點 ：3 樓，33 教室
主持人：王琬菁 副教授 / 陽明交大生化所

時段	講題 & 講者
13:30-14:00	SAM-Dependent Methylation in Longevity Regulation Speaker: 金翠庭 副教授 / Institute of Biopharmaceutical Sciences, NYCU
14:00-14:30	Mechanistic Analysis of SerpinB2 in Replicative Senescence Speaker: 林敬哲 教授 / Institute of Biochemistry and Molecular Biology, National Taiwan University College of Medicine
14:40-15:10	Unraveling Neuroprotective Mechanisms: The Therapeutic Potential of miR-196a In Huntington's Disease Speaker: 楊尚訓 教授 / Department of Physiology, College of Medicine, National Cheng Kung University
15:10-15:40	Pathogenic Mechanism and Therapeutic Potential for Misfolded Proteins in ALS Speaker: 陳韻如 研究員 / Genomics Research Center, Academia Sinica

中華民國細胞及分子生物學學會

主 題：Tumor Immunity
時 間：113 年 3 月 24 日 (週日)
地 點：3 樓，30 教室
主持人：謝世良 特聘研究員

時段	講題 & 講者
11:20-12:00	Unraveling the Multifacted Pathogenic Role of Tumor-Associate Macrophages Speaker: 楊慕華 副校長 / National Yang Ming Chiao Tung University

主 題：Cancer Metabolism
時 間：113 年 3 月 24 日 (週日)
地 點：3 樓，30 教室
主持人：李岳倫 研究員

時段	講題 & 講者
13:00-13:40	SDHB/succinate-mNADK axis as a Driver of Cancer Metastasis Speaker: 郭呈欽 研究員 /National Health Research Institutes, Institute of Cellular and System Medicine
13:40-14:20	Decoding Pancreatic Cancer Initiation: Understanding Metabolic Imbalance and Microenvironmental Changes Speaker: 胡春美 助研究員 /Genomics Research Center, Academia Sinica, Taiwan
14:20-15:00	TEAD4 Modulates Ferroptosis to Acquire Drug Resistance in Castration-Resistant Prostate Cancer Speaker: 陳嘉霖 助理教授 /Department of Life Sciences and Institute of Genome Sciences, National Yang Ming Chiao Tung University, Taipei, Taiwan

中華民國臨床生化學會

主 題：Microbiome in Health and Disease
時 間：113 年 3 月 23 日 (週六)
地 點：3 樓，31 教室
主持人：徐慧貞 理事長 / 林佳霓 理事

時段	講題 & 講者
14:20-15:00	Update on Gut Microbiome and Microbiome-Based Therapeutics Speaker: 邱政洵 教授 / Chang Gung Memorial Hospital, Chang Gung University College of Medicine
15:20-16:00	Quantification of Fecal bbu Genes Predicts L-carnitine-Mediated TMAO Production Speaker: 吳偉愷 教授 / National Taiwan University College of MedicineNational Taiwan University Hospital
16:00-16:40	Current Development of The Next Generation Probiotics Speaker: 賴信志 教授 / REVIVEBIO CO.

台灣毒物學學會

主 題 ：化學品 / 化妝品 / 醫材安全性評估及替代測試之趨勢及挑戰
時 間 ：113 年 3 月 23 日 (週六)
地 點 ：2 樓，29 教室
主持人：王應然 教授 / 劉興華 教授

時段	講題 & 講者
13:30-14:00	The Applications of Toxicological and Eco-Toxicological Information in Chemical Risk Assessment Speaker: 陳柏霖 博士 / Apollo Technology Co., Ltd.
14:00-14:30	The Current Status and Prospects of Skin Equivalent Platform Technology in Cosmetic Safety Assessment Speaker: 陳婉昕 博士 / BDL,Industrial Technology Research Institute (ITRI)
14:30-15:00	Toxicological Risk Assessment of Medical Device Constituents: New Strategy and Alternative Method Required for Biological Evaluation of Medical Devices Speaker: 楊靜欽 博士 / SGS TAIWAN
15:00-15:30	Organ-On-Chip, A New Paradigm for Disease Modeling Speaker: 秦咸靜 博士 / National Laboratory Animal Center, NARLabs

主 題 ：以微生物組與多體學探索環境污染與健康守護在現代毒理學之挑戰
時 間 ：113 年 3 月 24 日 (週日)
地 點 ：2 樓，29 教室
主持人：李志恒 教授 / 楊振昌 教授

時段	講題 & 講者
13:00-13:30	The Emerging Role of Microplastics in The Metabolic System Toxicity Speaker: 李宥萱 副教授 / Department of Cosmeceutics, China Medical University
13:30-14:00	Lung and Intestinal Microbiome Dysbiosis in Chronic Obstructive Pulmonary Disease: The Role of Air Pollution Speaker: 莊校奇 教授 / School of Respiratory Therapy, Taipei Medical University
14:00-14:30	The Multi-Omics Study on The Mechanisms of Bacterial Degradation of Toxic Organic Compounds Speaker: 黃雪莉 教授 / Institute of Microbiology and Immunology National Yang Ming Chiao Tung University
14:30-15:00	A Precision Environmental Health Approach To Cancer Prevention Strategy Speaker: 陳惠文 教授 / Graduate Institute of Toxicology, National Taiwan University College of Medicine

中國生理學會

主 題 ：CPS 講座一：Renal Physiology
時 間 ：113 年 3 月 23 日 (週六)
地 點 ： 1 樓，第二教室
主持人：李宗玄 教授

時段	講題 & 講者
14:30-17:00	Physiology and Pathophysiology of Kidney Pericytes Speaker: 林水龍 教授 / Graduate Institute of Physiology, National Taiwan University
	Mechanobiology of Renal Tubule Morphogenesis Speaker: 湯銘哲 教授 / Department of Physiology, National Cheng Kung University
	HIF-1α-Induced YAP Nuclear Entry Avoids DNA Damage and Apoptosis under Hypoxia in Renal Epithelial Cells Speaker: 邱文泰 教授 / Department of Physiology, National Cheng Kung University
	Hemodialysis Vascular Access Complications: Causes, Detection, and Prediction Speaker: 楊智宇 教授 / Institute of Clinical Medicine, National Yang Ming Chiao Tung University
	Global microRNA Profiling of Human Urinary Extracellular Vesicle Reveals Disease Biomarkers for Predicting Non-Recovery of Acute Kidney Injury after Cardiac Surgery Speaker: 陳嘉君 副研究員 / Molecular Medicine Research Center, Chang Gung University

主 題 ：CPS 講座二：新進學者專題演講
時 間 ：113 年 3 月 24 日 (週日)
地 點 ：1 樓，第二教室
主持人：李青澔 教授

時段	講題 & 講者
14:30-16:30	Meet The "Point Of No Return" of Renal Fibrosis- Can We Conquer It? Speaker: 葉儀君 助理教授 / Department of Physiology and Pharmacology, Chang Gung University
	Defective Innate Immune Signaling in Pathogenesis of Severe Asthma Speaker: 楊豐名 副教授 / School of Respiratory Therapy, Taipei Medical University
	Sleep Deprivation Impairs Working Memory by Regulation of Anti-Aging Protein Klotho Speaker: 顏怡君 助理教授 / Department of Life Science, Tunghai University
	A Multiscale Analytical Framework for Synaptic Plasticity and Single-Neuron Computation Basis of A Hippocampal Memory Circuit Speaker: 徐經倫 助研究員 / Institute of Biomedical Sciences, Academia Sinica

台灣藥理學會

主 題 ：Ocular Pharmacology and Regenerative Therapy
時 間 ：113 年 3 月 24 日 (週日)
地 點 ：1 樓，第一教室
主持人：蕭哲志 教授

時段	講題 & 講者
10:40-11:10	From Bench to Bedside - Application of iPSC-based Technology on Retinal Diseases Speaker: 邱士華 教授 / National Yang Ming Chiao Tung University
11:10-11:40	Drug Development and Pharmacological Research On Blue Light-Induced Retinopathies Speaker: 鄭幼文 教授 / Taipei Medical University
11:40-12:10	Therapeutic Effects of Pegfilgrastim (PEG-G-CSF) in Traumatic Optic Neuropathy (TON): From Bench to Clinic. Speaker: 蔡榮坤 教授 / Institute of Medical Sciences, Tzu Chi University; Institute of Eye Research, Hualien Tzu Chi General Hospital

主 題 ：癌症新穎標靶及治療
時 間 ：113 年 3 月 24 日 (週日)
地 點 ：1 樓，第一教室
主持人：湯智昕 教授

時段	講題 & 講者
14:00-14:30	Exploring the Exocytic Pathways as Targets for Cancer Treatment Speaker: 王憶卿 教授 / 國立成功大學藥理所
14:30-15:00	Innovative Strategies in The Development of Nanoparticles To Augment Therapeutic Potential Effects in Cancer Therapy Speaker: 林宥欣 教授 / Department of Pharmacy, National Yang Ming Chiao Tung University
15:15-15:45	New Strategies for The Treatment of Breast Cancer Speaker: 黃偉謙 教授 / Graduate Institute of Biomedical Sciences, China Medical University
15:45-16:15	Cellular And Subcellular Mislocalization of Endocan in Cancer–A Multifaceted Oncoprotein Speaker: 華國泰 教授 / Graduate Institute of Toxicology, College of Medicine, National Taiwan University
16:15-16:45	From Code to Cure: Bridging Drug Discovery, Pharmacology, and Startup Speaker: 潘秀玲 教授 / Graduate Institute of Cancer Biology and Drug Discovery/ Taipei Medical University



Speaker/
陳玉怜
Yuh-Lien Chen

國立臺灣大學醫學院解剖學暨細胞生物學研究所

Current Position Title:
國立台灣大學醫學院解剖學暨細胞生物學研究所 教授 / 主任 / 所長

Education/Training:
國立臺灣大學解剖學研究所博士
國立臺灣大學解剖學研究所碩士
國立台灣大學動物學系學士

Professional and Research Experience:
微血管之超微形態研究及對分子的通透性。
動脈之超微形態及對巨分子（例如低密度脂蛋白）的通透性。
心血管疾病的形態觀察及動脈硬化和血管再狹窄之形成機制。
以胚胎幹細胞或具「活血化瘀」中藥或臨牀用藥對心血管疾病的療效及其相關機轉。

Selected Publications:
1. Lai TC, Lee CW, Hsu MH, Chen YC, Lin SR, Lin SW, Lee TL, Lin SY, Hsu SH, Tsai JS, Chen YL. Nanocurcumin reduces high glucose and particulate matter-induced endothelial inflammation: mitochondrial function and involvement of miR-221/222. International Journal of Nanomedicine. (2023)18: 7379.
2. Lai TC, Chen YC, Cheng HH, Lee TL, Tsai JS, Lee IT, Peng KT, Lee CW, Hsu LF and Chen YL. Combined exposure to fine particulate matter and high glucose aggravates endothelial damage by increasing inflammation and mitophagy: the involvement of vitamin D. Particle and Fibre Toxicology. (2022) 19: 25.
3. Lee TL, Lai TC, Lin SR, Lin SW, Chen YC, Pu CM, Lee IT, Tsai JS, Lee CW, Chen YL. Conditioned medium from adipose-derived stem cells attenuates ischemia/reperfusion-induced cardiac injury through the microRNA-221/222/PUMA/ETS-1 pathway. Theranostics. (2021)11: 3131.
4. Chen YC, Chuang TY, Liu CW, Liu CW, Lee TL, Lai TC, Chen YL. Particulate matters increase epithelial-mesenchymal transition and lung fibrosis through the ETS-1/NF-κB-dependent pathway in lung epithelial cells. Particle and Fibre Toxicology. (2020)17: 41.

3/23 (六) 14:00-15:30
3 樓 32 教室



Speaker/
鄭瓊娟
Chung-Jiuan Jeng

國立陽明交通大學醫學院解剖學及細胞生物學研究所

Current Position Title:
Professor/Director, Institute of Anatomy and Cell Biology, College of Medicine, National Yang Ming Chiao Tung University

Education/Training:
PhD, Department of Anatomy and Cell Biology, University of California, Los Angeles, USA
MS, Department of Anatomy, College of Medicine, National Taiwan University, Taiwan
BS, Department of Physical Therapy, College of Medicine, National Taiwan University

Professional and Research Experience:
Professor, Institute of Anatomy and Cell Biology, National Yang Ming Chiao Tung Univ.
Postdoc, California Institute of Technology, California, USA

Awards and Honors:
Senior Fellow of the Higher Education Academy (SFHEA, 2023)
Inspiring Mentor Award, National Yang Ming Chiao Tung University (2022)
Excellent Teaching Award, National Yang-Ming University (2018)

Selected Publications:
• C.-H. Hsieh, C.-C. Chou, Y.-C. Fang, P.-H. Hsu, Y.-H. Chiu, C.-S. Yang, G.-M. Jow, C.-Y. Tang*, and C.-J. Jeng* (2023) 14-3-3 proteins regulate cullin 7-mediated Eag1 degradation. Cell & Bioscience 13:18. doi: 10.1186/s13578-023-00969-w.
• Y.-C. Fang, S.-J. Fu, P.-H. Hsu, P.-T. Chang, J.-J. Huang, Y.-C. Chiu, Y.-F. Liao, G.-M. Jow, C.-Y. Tang*, and C.-J. Jeng* (2021) Identification of MKRN1 as a second E3 ligase for Eag1 potassium channels reveals regulation via differential degradation. Journal of Biological Chemistry 296, 100484.
• C.-T. Hsiao, T.F. Tropea., S.-J. Fu, T.M. Bardakjian, P. Gonzalez-Alegre, B.-W. Soong, C.-Y. Tang*, C.-J. Jeng* (2021) Rare gain-of-function KCND3 variant associated with cerebellar ataxia, parkinsonism, cognitive dysfunction, and brain iron accumulation. International Journal of Molecular Sciences. 22, 8247. doi: 10.3390/ijms22158247.
• G. Zanni*, C.-T. Hsiao, S.-J. Fu, C.-Y. Tang, A. Capuano, L. Bosco, F. Graziola, E. Bellacchio, S.. Servidei., G. Primiano., B.-W. Soong and C.-J. Jeng* (2021) Novel KCND3 variant underlying nonprogressive congenital ataxia or SCA19/22 disrupt Kv4.3 protein expression and K+ currents with variable effects on channel properties. International Journal of Molecular Sciences. 22, 4986. doi: 10.3390/ijms22094986.



Speaker/
曾國藩
Guo-Fang Tseng

Department of Anatomy, College of Medicine, Tzu Chi University

Current Position Title:
Professor and Head, Department of Anatomy, School of Medicine Director, Medical Simulation Center Tzu Chi University

Education/Training:
MS, Anatomy, College of Medicine, National Taiwan University
PhD, Anatomy and Neuroscience, University of Wisconsin-Madison
Postdoctoral fellow, Neurology and Neurological Sciences, Stanford University Medical Center

Professional and Research Experience:

2009/08-2019/07	Vice President, Tzu Chi University
2006/08-2019/07	Dean, Research and Development, Tzu Chi University
2003/08-2006/07	Professor and Head, Department of Anatomy, Graduate institute of Anatomy and Cell Biology, National Taiwan University
1991/03-1987/07	Associate Professor, Anatomy, National Taiwan University
1997/08-2006/07	Professor, National Taiwan University
1997/08-2006/07	Adjunct Professor, Department of Anatomy, Tzu-Chi University

Awards and Honors:
Ta-You Wu Memorial Award
National Science and Technology Council, Taiwan (2015/6)
Young Biomedical Scientist Award
Tien-Te Lee Biomedical Foundation, Taiwan (2016/5)

Selected Publications:
Kin Fah Chin, Torence Ming Kwan, Lee Zhuang Ying, Guo-Fang Tseng (2023) Effect of silent mentor program on empathy in medical students: A quasi-experimental study. Med Edu Nov: 57(11):1128-1129.
Guo-Fang Tseng (2023) When our medical students learn anatomy, they see a person, not a specimen. Issues Sci Tech, Spring: 23-25.
Shao-Yin Chu, Ting-Chun Tseng, Yun-Chi Ho, Guo-Fang Tseng (2022) The Impact of a Gross Anatomy Curriculum With Donor Family Interaction: Thematic Analysis of Student Letters to Silent Mentors. Acad Med 97(7): 1065-1070.
Scott Santibañez, Debra Boudreaux, Guo-Fang Tseng, Kimberly Konkel (2015) The Tzu Chi Silent Mentor Program: Application of Buddhist Ethics to Teach Student Physicians Empathy, Compassion, and Self-Sacrifice. Journal of Religion and Health, 55 (5): 1483-1494.

3/23 (六) 14:00-15:30
3 樓 32 教室

The Silent Mentor Program of Tzu Chi University: Teaching, Learning and Beyond

曾國藩
Guo-Fang Tseng

Anatomy and especially the dissection in health care education have a long history of being unpleasant and disturbing as human bodies were usually no-name specimens solely for exploring structural knowledge. This contradicts the core values of health care education as health professionals are expected to treat their patients holistically and be caring and empathic. With willed bodies nowadays, stripping the identities and affection remains a common practice in medical schools around the world. This appears to reflect the ethnocentricity of medical educators and the medical profession as a whole. This reflects the dichotomy of biomedical and humanistic parts of the medical education and is likely to have an adverse influence on the professional attitude of health care personnel that we intended to train.

Starting in 1996, in Tzu Chi University we explored an alternative approach that incorporated learning about the donor's life and interaction with donor family in the gross anatomy teaching program. Trainees visited donor families before dissection and families were invited to the university to join the ceremonies at the beginning and end of the dissection program. Body donors are regarded as silent teachers and altruistic role models, hence silent mentors to the students. In 2002, we ventured beyond gross anatomy to operate an invasive clinical and surgical skills training program with un- embalmed bodies under the same humanistic settings. Interaction incited in-depth introspection in medical trainees to develop an altruistic attitude toward life and be caring professionals. The program in addition, comforted surviving families and encouraged body donation. This teaching philosophy is now being adopted in various formats in a large number of medical schools across the world and especially in Asia.



Speaker/
莫凡毅
Fan-E Mo

Department of Cell Biology and Anatomy, National Cheng Kung University

Current Position Title:
Professor/Head

Education/Training:
B.S. in Chemistry, National Cheng Kung University
M.S. in Biochemistry, National Yang-Ming University
Ph.D. in Molecular Genetics, University of Illinois at Chicago

Professional and Research Experience:
Head, 2021-present, Dept of Cell Biology and Anatomy, NCKU
Professor, 2019-present, Dept of Cell Biology and Anatomy, NCKU
Associate Professor, 2013-2019, Dept of Cell Biology and Anatomy, NCKU
Assistant Professor, 2007-2013, Dept of Cell Biology and Anatomy, NCKU
Research Assistant Professor, 2001-2006

Selected Publications:
1. Yu-Hsiang Huang, Hsin Huang, Yi-Hsiang Chuang, Fan-E Mo, Chih-Chung Huang (2023, Dec). Visualization of Pulse-Wave Velocity on Arterial Wall of Mice Through High-Frequency Ultrafast Doppler Imaging. IEEE Trans Biomed Eng, 70(12), 3366-3372.
2. Yang Kao Wang, Hung Kai Weng, Fan E Mo (2023, Jun). The regulation and functions of the matricellular CCN proteins induced by shear stress. J Cell Commun Signal, 17(2), 361-370.
3. Yu-Hsiang Huang, Hsin Huang, Fan-E Mo, Chih-Chung Huang (2023, Jun). Estimation of Mouse Carotid Arterial Wall Shear Stress Using High-Frequency Ultrasound Imaging. IEEE Trans Ultrason Ferroelectr Freq Control, 70(6), 474-485.
4. Fan-E Mo (2021, Apr). Shear-Regulated Extracellular Microenvironments and Endothelial Cell Surface Integrin Receptors Intertwine in Atherosclerosis. Frontiers in Cell and Developmental Biology, 9, 640781.
5. Shih-Ying Wu, Bo-Syong Pan, Sheng-Feng Tsai, Yi-Ting Chiang, Bu-Miin Huang, Fan-E Mo, and Yu-Min Kuo (2020, Jul). BDNF reverses aging-related microglial activation. Journal of Neuroinflammation, 17, 210.

3/24 (日) 14:00-15:30
3 樓 32 教室

Shear-Induced CCN1 Promotes Atheroprone Vascular Cell Phenotypes And Atherosclerosis

莫凡毅
Fan-E Mo

Atherosclerosis primarily develops in blood vessels subjected to turbulent blood flow. The matricellular protein CCN1 is expressed in atherosclerotic lesions in patients and in the Apoe-/- mouse model. CCN1 is triggered to play a crucial role in the activation of NF-κB induced by disturbed flow in the endothelial cells, subsequently the induction of atheroprone gene expression. This atherogenic process is blocked by an antagonistic T1 peptide (derived from an α6κ1-binding sequence of CCN1) , demonstrating CCN1 signaling through its cell surface integrin receptor α6κ1. Interestingly, the activation NF-κB by CCN1/α6κ1 promotes further CCN1 and α6κ1 production, perpetuating a detrimental cycle that sustains endothelial dysfunction. Moreover, CCN1 expression is upregulated in vascular smooth muscle cells within atherosclerotic plaques in mice. Our initial findings suggest that CCN1 promotes the phenotypic switch of vascular smooth cells to a dedifferentiated stage and facilitates the acquisition an osteogenic phenotype. CCN1 contributes to vascular smooth muscle cell calcification by binding to α6κ1. In essence, CCN1 emerges as a pivotal regulator involved in the development atheroprone endothelial phenotypes induced by disturbed flow and in the calcification process of vascular smooth muscle cells, indicating its critical role in both the initiation and progression of atherosclerosis.



Speaker/
甘祐瑜
Yu-Yu Kan

School of Medicine, College of Medicine,
National Sun Yat-sen University

Current Position Title:
Associate professor

Education/Training:
BS, Department of Physical Therapy, College of Medicine, Chang Gung University
MS, Institute of Physical Therapy and Assistive Technology, College of Biomedical Science and Engineering, National Yang-Ming University
PhD, Institute of Neuroscience, College of Life Science, National Yang-Ming University

Professional and Research Experience:
Postdoc- Department of Anatomy and Cell Biology, National Taiwan University College of Medicine

Selected Publications:
1. Yu-Yu Kan, Ying-Shuang Chang, Liao Wen-Chieh, Tzu-Ning Chao, Yu-Lin Hsieh. (2023). Roles of Neuronal Protein Kinase C ε on Endoplasmic Reticulum Stress and Autophagic Formation in Diabetic Neuropathy. Molecular Neurobiology.
2. Hung-Wei Kan, Jung-Hsien Hsieh, Shih-Wei Wang, Ti-Yen Yeh, Ming-Fong Chang, Tsz-Yi Tang, Chi-Chao Chao, Fang-Ping Feng, Sung-Tsang Hsieh. (2022). Nonpermissive skin environment impairs nerve regeneration in diabetes via Sec31a. Annals of Neurology, 91(6), 821-833.
3. Hung-Wei Kan, Chin-Hong Chang, Ying-Shuang Chang, Yi-Ting Ko, Yu-Lin Hsieh. (2021). Genetic loss-of- function of activating transcription factor 3 but not C-type lectin member 5A prevents diabetic peripheral neuropathy. Laboratory Investigation, 101(10), 1341–1352.
4. Hung-Wei Kan, Jung-Hsien Hsieh, Hsiung-Fei Chien, Yea-Huey Lin, Ti-Yen Yeh, Chi-Chao Chao, Sung-Tsang Hsieh. (2018). CD40-mediated HIF-1α expression underlying microangiopathy in diabetic nerve pathology. Disease Models & Mechanisms, 11(4), dmm033647.

3/24 (日) 14:00-15:30
3 樓 32 教室

Cellular and Molecular Mechanisms Underlying Peripheral Neuropathy

甘祐瑜
Yu-Yu Kan

Diabetes mellitus, characterized by elevated blood glucose levels, is prevalent in developed countries, including Taiwan, and is associated with various complications, such as diabetic polyneuropathy (DPN). DPN significantly affects the quality of life of patients, highlighting the importance of understanding the cellular and molecular mechanisms that lead to the pathogenesis of DPN. We have demonstrated that microangiopathy is associated with nerve degeneration at the level of the sural nerve via the CD40-HIF1α signaling pathway; however, there are discrepant nerve integrities between sural nerve fibers and skin axon terminals, suggesting that distal axon sprouts encounter other obstacles in the peripheral microenvironment. In addition, we have demonstrated the association of neuroinflammation and endoplasmic reticulum (ER) stress in the dorsal root ganglion (DRG) with DPN, suggesting the creation of a deleterious microenvironment leading to axonal degeneration at the DRG level. This presentation will summarize our findings on cellular and molecular mechanisms contributing to DPN, including aberrant neuroinflammation, oxidative stress, and alterations in the extracellular composition. In addition, we will present our recent findings on macrophages, fibroblasts, and glial cells, in the modulation of peripheral nerve degeneration/regeneration in DPN. By mimicking diabetes in the animal model and culture system, understanding the molecular mechanisms of nerve degeneration/regeneration will provide new insights into therapeutic strategies for DPN.



Speaker/
郭曉縈
Hsiao-Ying Kuo

Institute of Anatomy and Cell Biology, National Yang Ming Chiao Tung University

Current Position Title:
Assistant Professor

Education/Training:
BS, Department of Physical Therapy, College of Medicine, Chang Gung University
MS, Institute of Physical Therapy and Assistive Technology, College of Biomedical Science and Engineering, National Yang-Ming University
PhD, Institute of Neuroscience, College of Life Science, National Yang-Ming University

Professional and Research Experience:

2021/08-present	National Yang Ming Chiao Tung University Assistant Professor, Institute of Anatomy and Cell Biology
2021/02-2021/07	National Yang Ming Chiao Tung University Assistant Professor, Department of Biological Science & Technology
2018/08-2021/01	National Yang-Ming University Independent Postdoctoral Researcher, Institute of Neuroscience

Awards and Honors:

2017/09	Distinguished Thesis Prize in the 13th TienTe Lee Biomedical Award
2017/04	Young Investigator Award for Pediatric Neuropsychiatric Science from An-An Slow Angels' Family Support Association

Selected Publications:
Kuo HY*, Chen SY*, Huang RC, Takahashi H, Lee YH, Pang HY, Wu CH, Graybiel AM, Liu FC (2023) Speech- and language-linked FOXP2 mutation targets protein motors in striatal neurons. Brain. 146:3542-3557. *Co-first authors.
Kuo HY, Liu FC (2017) Valproic acid induces aberrant development of striatal compartments and corticostriatal pathways in a mouse model of autism spectrum disorder. FASEB J. 31:4458-4471.
Chen YC*, Kuo HY*, Bornschein U, Takahashi H, Chen SY, Lu KM, Yang HY, Chen GM, Lin JR, Lee YH, Chou YC, Cheng SJ, Chen CT, Enard W, Hevers W, Pääbo S, Graybiel AM, Liu FC (2016) Foxp2 controls synaptic wiring of corticostriatal circuits and vocal communication by opposing Mef2c. Nature Neuroscience. 19:1513-1522. *Co-first authors.

3/24 (日) 14:00-15:30
3 樓 32 教室

Interaction of Speech- and Language-Linked Mutant Gene and Motor Protein Underlying Striatal Wiring of Vocal Communication

郭曉縈
Hsiao-Ying Kuo

Vocalization serves as a universal medium for emotional expression and information exchange. Conspecific vocal communication promotes survival and resists predators. The basal ganglia circuits encompass groups of well-organized subcortical nuclei in the forebrain, playing an indispensable role in psychomotor functions. The striatum is the main input nucleus of the basal ganglia and integrates limbic and motor information from diverse brain regions. FOXP2 is a human speech- and language-linked mutant gene strongly expressed in the basal ganglia and has been implicated in regulating vocalization across species, including songbirds and rodents. Our previous studies demonstrated that Foxp2 promotes corticostriatal synaptogenesis by opposing Mef2c. In this present study, we identified a novel Foxp2 target gene, Dctn1, in the striatum during neonatal development. Foxp2 regulates endosome trafficking, microtubule stability, and striatal neurite outgrowth by suppressing Dctn1 expression. Deletion of Foxp2 impairs the integrity of the striatal protein motors complex. Notably, the electrophysiological, cellular, and molecular impairments alongside vocalization deficits in mice carrying human FOXP2R553H mutation can be partially restored by knocking down Dctn1. Our findings unveil the critical role of Foxp2 in forming vocal circuits by modulating the homeostasis of protein motors, potentially contributing to the pathophysiology of speech/language disorders associated with FOXP2 mutation or deletion.



Speaker/
李永凌
Yungling Leo Lee

Institute of Biomedical Sciences,
Academia Sinica

See More Here

Current Position Title:
Research Fellow

Professional and Research Experience:
Department of Occupational and Environmental Medicine, National Cheng Kung University, Taiwan
-Assistant Professor and Attending Physician (2005/8~2009/1)

Institute of Epidemiology and Preventive Medicine, National Taiwan University, Taiwan
-Assistant Professor and Attending Physician (2009/2~2014/7)
-Associate Professor and Attending Physician (2014/8~2019/7)
-Professor and Attending Physician (2019/8~2020/1)

Institute of Biomedical Sciences, Academia Sinica, Taiwan
-Research Fellow (2020/2~)

Awards and Honors:
Ta-You Wu Memorial Award
National Science and Technology Council, Taiwan (2015/6)
Young Biomedical Scientist Award
Tien-Te Lee Biomedical Foundation, Taiwan (2016/5)

Selected Publications:
1. Yeh CY, Su SH, Tan YF, Tsai TF, Liang PH, Kelel M, Weng HJ, Hsiao YP, Lu CH, Tsai CH, Lee CH, Clausen BE, Liu FT, Lee YL*. PD-L1 Enhanced by cis-Urocanic Acid on Langerhans Cells Inhibits Vγ4+ γδT17 Cells in Imiquimod-Induced Skin Inflammation. J Invest Dermatol 2023;143:1449-1460 (SCI) (IF: 6.5) (*corresponding)
2. Tsai CH, Lai ACY, Lin YC, Chi PY, Chen YC, Yang YH, Chen CH, Shen SY, Hwang TL, Su MW, Hsu IL, Huang YC, Maitland-van der Zee AH, McGeachie MJ, Tantisira KG, Chang YJ, Lee YL*. Neutrophil extracellular trap production and CCL4L2 expression influence corticosteroid response in asthma. Sci Transl Med 2023;15:eadf3843 (SCI) (IF: 17.1) (*corresponding)

3/23 (六) 14:00-14:30
3 樓 30 教室

Aryl Hydrocarbon Receptor Regulates Cross-presentation in Type 1 Conventional DC and Augments Cancer Immunotherapy

李永凌
Yungling Leo Lee

Dendritic cells (DCs) play a pivotal role as central regulators in the innate immune response and are indispensable for T cell-mediated cancer immunity. The aryl hydrocarbon receptor (AhR), a ligand-activated transcription factor, exerts a suppressive effect on anti-tumor immunity while enhancing tumor malignancy. Analysis of the Cancer Genome Atlas Program (TCGA) database reveals a significant positive correlation between inflammatory DCs and cancer inhibition, as well as patient survival. Examination of human melanoma samples demonstrates a higher recruitment of AhR+ cDC1 near lesion basal cells compared to non-lesion basal cells.

In B16/OVA xenograft mouse models, we found AhR conditional knockout in DCs significantly impedes tumor growth. Mechanistically, AhR regulates TAP1-OVA colocalization, underscoring its pivotal role in cross-presentation. AhR deficiency amplifies the generation of reactive oxygen species (ROS), while lower lysosomal acidification is observed in AhRko BMDC upon antigen uptake. In vitro co-culture assays using OT-1 CD8+ T cells reveal that AhRko BMDC exhibit a heightened potential to induce CD8+ T cell proliferation compared to WT BMDC. From in vitro biopanning of a phage-displayed peptide library, we identified anti-CD11c peptides binding to DCs. Targeting peptide-conjugated liposomes demonstrated efficient delivery both in vitro and in vivo. We applied liposomal AhR antagonist conjugated with targeting peptides and found significant tumor inhibition in mouse xenograft models, suggesting the considerable potential of targeting peptide-conjugated liposomal drugs for cancer therapy.

To investigate the drug's impact on human DCs, we established a human induced DC (iDC) antigen presentation assay system. AhR inhibition was noted to promote cDC1 differentiation and to enhance cross-presentation on CD8+ T cells. Additionally, we developed human immune system (HIS) mice with a high engraftment rate and human immune reconstitution. DC-enriched HIS mice via AAV-FLT3 injection and cancer cell library of HLA-A matched engineering will be generated, providing valuable tools for cancer immunotherapies.



Speaker/
陳韻晶
Yunching Chen

National Tsing Hua University

Current Position Title:
Professor
Institute of Biomedical Engineering
National Tsing Hua University

Education/Training:
University of North Carolina at Chapel Hill
Pharmaceutical Sciences, Ph.D.

Professional and Research Experience:
Research fellow, Tumor Biology and Biomedical Engineering,
Massachusetts General Hospital and Harvard Medical School, Boston, MA.

Awards and Honors:
2020 Promising Women in Science Award
2020 The 16th Young Investigator Award, TienTe Lee Biomedical Foundation
2021 Academia Sinica Early-Career Investigator Research Achievement Award
2023 Outstanding Research Award, National Science Council, Taiwan.

Selected Publications:
1. A chemoimmunotherapy nanogel enables efficient delivery of interleukin-2 and induction of immunogenic cell death for effective cancer therapy. (2023) Advanced Functional Materials, 2303033.
2. Reversal of Pancreatic Desmoplasia by a Tumor Stroma-targeted Nitric Oxide Nanogel Overcomes TRAIL Resistance in Pancreatic Tumors. (2022) Gut, 71(9), 1843-1855.
3. Highly Efficient and Tumor-Selective Nanoparticles for Dual-Targeted Immunogene Therapy against Cancer. (2020) Science Advances, 6(3), eaax5032.
4. Delivery of Nitric Oxide with a Nanocarrier Promotes Tumour Vessel Normalization and Potentiates Anti-Cancer Therapies. (2019) Nature Nanotechnology, 14, 1160–1169.

3/23 (六) 14:30-15:00
3 樓 30 教室

Next-Generation Nanoscale Carriers for Enhanced Cancer

陳韻晶
Yunching Chen

Cancer immunotherapy is becoming more effective with the use of nanoscale drug delivery systems. In this presentation, we'll explore how these small, engineered carriers target and improve treatment for challenging tumors, such as hepatocellular carcinoma (HCC) and pancreatic ductal adenocarcinoma (PDAC). These drug-loaded nanocarriers have been designed to overcome specific barriers in tumors, like irregular blood vessels and dense tissues, allowing for better penetration of immune cells. For example, a new chemoimmunotherapy nanogel, in combination with losartan, efficiently delivers the immune stimulating IL-2 to pancreatic tumors. This combination reduces the tumor's immune-blocking properties and strengthens the antitumor response. These innovative drug delivery systems demonstrate promising potential in improving cancer immunotherapy and overcoming resistance in solid tumors, particularly those marked by abnormal vasculature, dense desmoplastic stroma and immunosuppressive microenvironment, heralding a new era in cancer treatment.



Speaker/

張雅貞
Ya-Jen Chang

Institute of Biomedical Sciences, Academia Sinica, Taiwan

Current Position Title:
Research Fellow, Institute of Biomedical Sciences, Academia Sinica, Taiwan

Education/Training:
1995 –1999 B.S., Pharmacy, National Taiwan University, Taiwan;
1999 –2001 M.S., Pharmacology, National Taiwan University, Taiwan;
2001 –2005 Ph.D., Pharmacology, National Taiwan University, Taiwan;
2005 –2008 Postdoctoral Researcher/ Genomics Research Center, Academia Sinica;
2008 –2011 Postdoctoral Researcher, Children's Hospital Boston, Harvard Medical School, USA

Professional and Research Experience:
2023- present Research Fellow, Institute of Biomedical Sciences, Academia Sinica;
2019- 2023 Associate Research Fellow, Institute of Biomedical Sciences, Academia Sinica;
2013- 2019 Assistant Research Fellow, Institute of Biomedical Sciences, Academia Sinica;
2011- 2013 Instructor in Pediatrics, Harvard Medical School, USA

Awards and Honors:
(2021-2023) 中研院特優研究績效獎 ; (2021) 中國青年救國團青年獎章 (博學類); (2021) 中研院深耕計畫獎 ; (2020) 中研院年輕學者研究著作獎 ; (2018) 中華民國免疫學會劉文章教授紀念學術獎

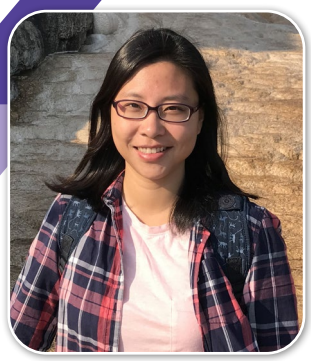
Selected Publications:
1. Tsai CH et al. Neutrophil extracellular trap production and CCL4L2 expression influence corticosteroid response in asthma. ***Science Translational Medicine*** 15(699):eadf3843. (2023)
2. Thio CL, et al. The ketone body β-hydroxybutyrate mitigates ILC2-driven airway inflammation by regulating mast cell function. ***Cell Reports*** 40, 111437 (2022)
3. Wu YH, et al. Pulmonary IL-33 orchestrates innate immune cells to mediate RSV-evoked airway hyperreactivity and eosinophilia. ***Allergy***. 75:818–830 (2020)
4. Thio CL, et al. TLR9-dependent interferon production prevents group 2 innate lymphoid cell-driven airway hyperreactivity. ***JACI*** 144(3):682-97 (2019)
5. Thio CL, et al. Regulation of type 2 innate lymphoid cell-dependent airway hyperreactivity by butyrate. ***JACI*** 142(6):1867-83 (2018)

3/24 (日) 13:30-15:00
1 樓 可勝廳

The Role of Innate Lymphocytes and Netosis in Steroid-Resistant Asthma

張雅貞
Ya-Jen Chang

Steroid-resistant asthma is a challenging condition that leads to impaired lung function, increased airway sensitivity, and frequent hospital admissions. Currently, there is no cure for this type of asthma. Neutrophil extracellular traps (NETs) are networks of DNA released from neutrophils, containing histones, proteases, and antimicrobial elements. While NETs play a crucial role in fighting infections, they are also linked to chronic inflammatory diseases like asthma and atherosclerosis. In patients with severe asthma, high levels of NETs are observed in their sputum and blood, but their exact role in the disease's severity is not fully understood. Additionally, the role of innate lymphocytes in asthma has garnered interest. These include innate lymphoid cells (ILCs), γδ T cells, and invariant natural killer T cells. Their activation often leads to harmful responses, but the specific molecular signals triggering these responses, especially in steroid-resistant scenarios, remain unclear. In this presentation, I will discuss our recent research on the role of ILC2 in airway hyperreactivity caused by respiratory syncytial virus (RSV), as well as the interaction between NETs and innate lymphocytes in mouse models of steroid-resistant asthma. Our translational study also emphasizes the significance of NETs as a potential biomarker for predicting steroid response and asthma types. Our findings offer new insights into the critical immune and cellular pathways involved and the potential of targeting these pathways for effective management of severe steroid-resistant asthma.



Speaker/

郭靜穎
Ching-Ying Kuo

Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University
國立臺灣大學醫學檢驗暨生物技術學系

Current Position Title:
Associate Professor, Department of CLSMB, NTU
Adjunct Medical Technologist, National Taiwan University Hospital
Secretary General, Chinese Association for Clinical Biochemistry

Education/Training:
B.S. Clinical Laboratory Sciences and Medical Biotechnology, NTU
Ph.D. Irell and Manella Graduate School of Biological Sciences, Beckman Research Institute/City of Hope National Medical Center

Professional and Research Experience:
2017-2023 Assistant Professor, Department of CLSMB, NTU
2015-2017 Clinical Variant Curator/Medical Technologist, Department of Pathology, Clinical Molecular Diagnostic Laboratory, City of Hope Medical Center
2013-2015 Post-doctoral Fellow, Department of Diabetes and Metabolic Diseases, Beckman Research Institute/City of Hope National Medical Center

Awards and Honors:
2017 Special Talents Award, Ministry of Science and Technology, R.O.C
2020-2023 Excellent Teaching Award (教學優良獎), National Taiwan University
2020-2023 Career Development Grant, National Health Research Institute

Selected Publications:
Su YH, Wu YZ, Ann DK, Chen JLY, and Kuo CY*: Obesity promotes radioresistance through SERPINE1-mediated aggressiveness and DNA repair of triple-negative breast cancer. CELL DEATH & DISEASE. 2023 Jan 21;14(1):53.
Wu YZ, Chen YH, Cheng CT, Ann DK, Kuo CY*. Amino acid restriction induces a long non-coding RNA UBA6-AS1 to regulate GCN2-mediated integrated stress response in breast cancer. FASEB J. 2022 Mar;36(3):e22201.

3/24 (日) 13:30-15:00
1 樓 可勝廳

Deciphering Radioresistance: The Impact of SERPINE1 in Obesity-Associated Triple-negative Breast Cancer

蘇詠涵、吳宜臻、安康、陳苓諭、郭靜穎 *
Yong-Han Su, Yi-Zhen Wu, David K. Ann, Jenny Ling-Yu Chen, Ching-Ying Kuo*

Obesity has been a growing threat to health worldwide. It is a risk factor for metabolic disorders and cancer. Particularly, the progression and the therapeutic response of breast cancer (BC) are largely impacted by obesity. Due to the lack of therapeutic targets in triple-negative breast cancer (TNBC), radiotherapy (RT) is given primarily or combined with other therapies. However, abnormal adiposity and adipokine secretion often cause radioresistance and lead to therapeutic failure in TNBC. In our present study, we focused on whether obesity affects tumor response to RT and targeted SERPINE1 (also known as PAI-1), a well-established obesity-related adipokine, as the central hub linking systemic metabolic alteration and radioresistance in TNBC.

We utilized diet-induced obesity syngeneic mouse model of TNBC and in vitro human adipocytes-conditioned medium co-culture model to demonstrate that under obese conditions, TNBC was less responsive to RT, and one of the adipocyte-secreted factors, SERPINE1, was identified as a key determinant for the therapeutic response. Mechanistically, circulating SERPINE1 or IR induced the expression of intracellular SERPINE1 in TNBC cells. Cancer cell-autonomous SERPINE1 can be either secreted to the tumor microenvironment to reinforce SERPINE1-mediated signaling or translocated to the nucleus to facilitate DSB repair. Moreover, SERPINE1 further activated the intracellular SERPINE1-AKT axis to promote fatty acid metabolism. The combinatorial effects of SERPINE1 reprogrammed TNBC cells to become more aggressive and radioresistant.

Our next step is to focus on the role of SERPINE1 in modulating tumor microenvironment. We will also evaluate whether SEPRINE1 can be developed into a prognostic biomarker or therapeutic target for obese TNBC patients receiving RT.



Speaker/

劉欣怡
Shin-Yi Liu

China Medical University

Current Position Title:
Assistant Professor

Education/Training:
Doctoral Degree, Department of Biomedical Imaging and Radiological Sciences, National Yang-Ming University, Taiwan

Professional and Research Experience:
Radiation Immunology, Nuclear Medicine, Cancer Therapy

Selected Publications:
1. Liquid biopsy in pancreatic cancer - Current perspective and future outlook. Zhao Y, Tang J, Jiang K, Liu SY, Aicher A, Heeschen C. Biochim Biophys Acta Rev Cancer 2023; 1878(3): 188868
2. Sequential Blockade of PD-1 and PD-L1 Causes Fulminant Cardiotoxicity–from Case Report to Mouse Model Validation. Liu, SY, Huang WC, Yeh HI, Ko CC, Shieh HR, Hung CL, Chen TY, Chen YJ. Cancers 2019; 11(4): 580
3. Arsenic trioxide-mediated suppression of miR-182-5p is associated with potent anti-oxidant effects through up-regulation of SESN2. Lin LT*, Liu SY*, Leu JD, Chang CY, Chiou SH, Lee TC, Lee YJ. Oncotarget. 2018, 9(22):16028-16042.
4. CELF1 Mediates Connexin 43 mRNA Degradation in Dilated Cardiomyopathy. Chang KT, Cheng CF, King PC, Liu SY, Wang GS. Circ Res. 2017;121(10):1140-1152.
5. External beam radiotherapy synergizes ^{188}Re-liposome against human esophageal cancer xenograft and modulates ^{188}Re-liposome pharmacokinetics. Chang CH, Liu SY, Chi CW, Yu HL, Chang TJ, Tsai TH, Lee TW, Chen YJ. Int J Nanomedicine. 2015;10:3641-9.
6. Role of WW domain proteins WWOX in development, prognosis, and treatment response of glioma. Liu SY, Chiang MF, Chen YJ. Exp Biol Med (Maywood). 2015;240(3):315-23. (IF: 2.542)
7. Association of platelet-derived growth factor receptor β accumulation with increased oxidative stress and cellular injury in sestrin 2 silenced human glioblastoma cells. Liu SY, Lee YJ, Lee TC. FEBS Lett. 2011;585(12):1853-8. (IF: 3.929)
8. XPC silencing sensitizes glioma cells to arsenic trioxide via increased oxidative damage. Liu SY, Wen CY, Lee YJ, Lee TC. Toxicol Sci. 2010;116(1):183-93. (IF: 5.189)

3/23 (六) 14:30-15:00
2 樓 20 教室

Interruption of Tumor-Bone Marrow-Axis by Radiation Induces Abscopal Effect in Lung Metastatic Mouse Model

劉欣怡
Shin-Yi Liu

Abscopal effect sparks new hope for metastatic cancer therapy. However, the molecular mechanism for the rare incidence of abscopal effect in clinical patients than in animal models remains unclear. Tumor-derived signals can stimulate bone marrow hematopoietic precursor differentiation toward myeloid-derived suppressor cells (MDSC) as the drivers of immunosuppression and cancer progression. We hypothesize radiation exposure on the bone marrow can interrupt the signals of derived from tumor cells and induce abscopal effect though the activation of nature killer (NK) cells in metastatic mouse model. Irradiation was performed with 5Gy on the left hindlimb, named left limb irradiation (LLI) in lung metastatic mice bearing colon cancer CT26-luciferase cells or melanoma B16F10 cells. In the irradiated bone marrow, the increase of NK cells and T cells were observed accompanied with the decrease of monocytes and B cells compared to non-irradiation tumor-bearing mice. After LLI treatment, lung metastatic mice showed delayed tumor growth and better survival rate than untreated and anti-PD1 treatment groups without significant adverse effects. Immune cell profiles in tumor microenvironment (TME) of LLI- treated mice displayed lower PMN-MDSC, interstitial macrophages, PD-1-positive T cells, and higher alveolar macrophages, NK cells, CD4+ T cells, and B cells than control group. Analysis of cytokines revealed that IL-4 and IL-7, the essential regulators for MDSC and common lymphoid progenitor, respectively, were suppressed by LLI treatment in the bone marrow, leading to the reduction of MDSC and elevation of NK cells in the TME. Mice receiving anti-NKG2D antibodies or IL-4 protein abrogated LLI-induced abscopal effect. Our study provides novel insights into the immunoregulatory mechanisms underlying abscopal effect suggesting that irradiation on murine bone marrow impairs the tumor-bone marrow-axis and remodel the distal lung TME to enhance cancer therapy.

Keywords: abscopal effect, tumor microenvironment, MDSC, NK cells, lung metastasis



Speaker/

夏建忠
Chien-Chung Hsia

National Atomic Research Institute

Current Position Title:
Researcher

Education/Training:
Ph.D., Department of Biomedical Imaging and Radiation Sciences, National Yang-Ming Chiao Tung University. (2011)
Master's degree from the Institute of Radiation Medicine, National Yang-Ming Chiao Tung University (2001)
Department of Medical Technology, National Yang-Ming Chiao Tung University (1991)

Professional and Research Experience:
Visiting scholar at Karolinska Institute in Sweden
Visiting scholar at the University of Washington, USA

Selected Publications:
Paper about Atherosclerosis imaging agent
Chien-Chung Hsia*, Chung-Hsin Yeh, Chun-Tang Chen, Cheng Liang Peng. Imaging the Cytokine Receptor CXCR4 in Atherosclerotic Plaques with [68Ga]-APD: A Novel Agent on Computer Simulation Approach. Journal of Clinical and Cellular Immunology JCCI-22-17763. DOI: 10.35248/2155-9899.22.13.663.
Chia-Hui Chen, (co-first author), Po-An Hu, Chung-Hsin Yeh, Chun-Tang Chen ,Cheng-Liang Peng, Chih-Hsien Wang, and Tzong-Shyuan Lee. Bromelain Ameliorates Atherosclerosis by Activating the TFEB-Mediated Autophagy and Antioxidant Pathways. Antioxidants 2023, 12, 72. https://doi.org/10.3390/antiox 12010072.
Weihsi Chen, Chien-Chung Hsia, Siao-Syun Guan, Cheng-Liang Peng. Characterization of the New Atherosclerosis Imaging Ligands with Aminomethyl-pyridinyl-tetraazacyclododecan Groups using Liquid Chromatography and Tandem Mass Spectrometry. Pharmaceutica Analytica Acta. Accepted in December 2023 , Published in January 2024.
glioblastoma cells. Liu SY, Lee YJ, Lee TC. FEBS Lett. 2011;585(12):1853-8. (IF: 3.929)
8. XPC silencing sensitizes glioma cells to arsenic trioxide via increased oxidative damage. Liu SY, Wen CY, Lee YJ, Lee TC. Toxicol Sci. 2010;116(1):183-93. (IF: 5.189)

3/23 (六) 15:30-16:00
2 樓 20 教室

Non-Invasive Atherosclerosis Imaging - Review and Prospect

夏建忠
Hsia Chien-Chung

Metabolic syndrome causes chronic inflammation of the arteries, leading to the growth of connective tissue in the arterial wall, the deposition of intracellular and extracellular cholesterol, fatty acids, and calcium carbonate. The arterial wall becomes hard, thick, and loses elasticity, resulting in atherosclerotic lesions, 18F-FDG and 18F-NaF. The chemokine C-X-C receptor type 4 (CXCR4) plays an extremely important role in inflammation and tumor biology. The "atherosclerosis contrast agent" is based on the CXCR4 small molecule antagonist TIQ-15 through computer simulation technology. Based on this, we designed a new chemical structure of the small molecule CXCR4 antagonist APD, which was labeled with the radioactive isotope Ga-68, and then verified its effectiveness in the atherosclerosis ApoE-/- mouse model. The results showed that 68Ga-APD can quickly pass through the kidneys. Excretion, the atherosclerotic lesion/background ratio (TBR) in ApoE-/- mice was >10 (1 to 2 hours after drug injection), which was more than 5 times better than the results of 68Ga-Pentixafor, but could not be detected in ApoE-/- Effective diagnosis of atherosclerotic lesions in mice. The "atherosclerosis contrast agent" developed through computer simulation technology can quickly and effectively improve the effectiveness of drug contrast diagnosis and shorten the development of new drugs. cycle time, reducing R&D costs and risk of failure.



Speaker/

盧家鋒
Chia-Feng Lu

National Yang Ming Chiao Tung University

Current Position Title:
Associate Professor

Education/Training:
Ph.D., Department of Biomedical Imaging and Radiation Sciences, National Yang-Ming Chiao Tung University.

Professional and Research Experience:
08/2020-present, Associate Professor, Department of Biomedical Imaging and Radiological Sciences, National Yang Ming Chiao Tung University, Taipei, Taiwan
11/2022-present, Director, Bilingual Education Program, College of Biomedical Science and Engineering, National Yang Ming Chiao Tung University, Taipei, Taiwan

Selected Publications:
1. Chia-Feng Lu, Fei-Ting Hsu, Kevin Li-Chun Hsieh, Yu-Chieh Jill Kao, Sho-Jen Cheng, Bo-Kai Hsu, Ping-Huei Tsai, Ray-Jade Chen, Chao-Ching Huang, Yun Yen, Cheng-Yu Chen. Machine Learning-Based Radiomics for Molecular Subtyping of Gliomas. Clinical Cancer Research, 24(18):4429-4436, 2018. (IF=11.5, Q1)
2. Huai-Che Yang, Chih-Chun Wu, Cheng-Chia Lee, Huai-En Huang, Wei-Kai Lee, Wen-Yuh Chung, Hsiu-Mei Wu, Wan-Yuo Guo, Yu-Te Wu, Chia-Feng Lu*. Prediction of Pseudoprogression and Long-term Outcome of Vestibular Schwannoma after Gamma Knife Radiosurgery based on Preradiosurgical MR Radiomics. Radiotherapy and Oncology, 155:123-130, 2021. (IF=5.7, Q1)
3. Chun-Yi Lin#, Chia-Feng Lu#, Chi-Wen Jao, Po-Shan Wang, Yu-Te Wu. Toward Consistency between Humans and Classifiers: Improved Performance of a Real-Time Brain–Computer Interface Using a Mutual Learning System. Expert Systems with Applications, 226:120205, 2023. (IF=8.5, Q1) #Co-first author
4. Chia-Feng Lu, Chien-Yi Liao, Heng-Sheng Chao, Hwa-Yen Chiu, Ting-Wei Wang, Yen Lee, Jyun-Ru Chen, Tsu-Hui Shiao, Yuh-Min Chen, Yu-Te Wu. A Radiomics-Based Deep Learning Approach to Predict Progression Free-Survival after Tyrosine Kinase Inhibitor Therapy in Non-small Cell Lung Cancer. Cancer Imaging, 23:9, 2023. (IF=4.9, Q1)
5. Chien-Yi Liao, Cheng-Chia Lee, Huai-Che Yang, Ching-Jen Chen, Wen-Yuh Chung, Hsiu-Mei Wu, Wan-Yuo Guo, Ren-Shyan Liu, Chia-Feng Lu*. Predicting Survival after Radiosurgery in Patients with Lung Cancer Brain Metastases Using Deep Learning of Radiomics and EGFR Status. Physical and Engineering Sciences in Medicine, 46:585–596, 2023. (IF=4.4, Q1)

3/23 (六) 16:00-16:30
2 樓 20 教室

New Era of “Human-AI Team" in Radiology

盧家鋒
Chia-Feng Lu

Since 2015, numerous studies have proposed promising results of the applications based on medical images and artificial intelligence (including conventional machine learning and deep learning methods) in disease diagnosis, treatment guidance, and outcome prediction. In late 2021, the U.S. FDA, Health Canada, and the United Kingdom’s Medicines and Healthcare Products Regulatory Agency jointly identified ten guiding principles for developing Good Machine Learning Practice (GMLP). Among all the guiding principles, the excellent performance of the human-AI team is highlighted as a key to facilitating clinical applications of intelligent devices.

The collaboration between humans and AI in radiology is crucial for optimizing diagnostic processes. By combining AI's rapid image analysis with the clinical expertise of physicians, this partnership enhances accuracy in interpreting medical images. The efficient workflow, achieved through AI automating routine tasks, enables radiologists to focus on complex cases, expediting diagnoses and report generation. This collaboration reduces physicians' workload, mitigating burnout and fostering a balanced work environment. Continuous learning occurs as physicians provide feedback to refine AI algorithms over time. In summary, the synergy between human and AI efforts facilitates early disease detection and decision-making, ultimately improving patient outcomes.



Speaker/

莊惠燕
Hui-Yen Chuang

National Yang Ming Chiao Tung University

Current Position Title:
Associate Professor

Education/Training:
Ph.D., Department of Biomedical Imaging and Radiation Sciences, National Yang-Ming Chiao Tung University.

Professional and Research Experience:
This experience was pivotal in honing her expertise in molecular imaging, molecular biology, and early cancer detection, contributing significantly to her multidisciplinary research approach.

Selected Publications:
1. Lee JR, Chan CT, Ruderman D, Chuang HY, Gaster RS, Atallah M, Mallick P, Lowe SW, Gambhir SS, Wang SX. (2017) Longitudinal monitoring of antibody responses against tumor cells using magneto-nanosensors with a nanoliter of blood. Nano Lett. DOI: 10.1021/acs.nanolett.7b02591
2. Ronald JA, Kim BS, Gowrishankar G, Namavari M, Alam IS, D'Souza A, Nishikii H, Chuang HY, Ilovich O, Lin CF, Reeves R, Shuhendler A, Hoehne A, Chan CT, Baker J, Yaghoubi SS, VanBrocklin HF, Hawkins R, Franc BL, Jivan S, Slater JB, Verdin EF, Gao KT, Benjamin J, Negrin R, Gambhir SS. (2017) A PET imaging strategy to visualize activated T cells in acute graft-versus-host disease elicited by allogenic hematopoietic cell transplant. Cancer Res;77(11):2893-2902
3. Chen JC, Chuang HY**, Hsu FT, Chen YC, Chien YC, Hwang JJ. (2016) Sorafenib pretreatment enhances radiotherapy through targeting MEK/ERK/NF-κB pathway in human hepatocellular carcinoma-bearing mouse model. Oncotarget;7(51):85450-85463
4. Ronald JA, D'Souza AL, Chuang HY, Gambhir SS. (2016) Artificial microRNAs as novel secreted reporters for cell monitoring in living subjects. PLoS One;11(7):e0159369
5. Shen YA, Wang CY, Chuang HY, Hwang JJ, Chi WH, Shu CH, Ho CY, Li WY, Chen YJ. (2016) CD44 and CD24 coordinate the reprogramming of nasopharyngeal carcinoma cells towards a cancer stem cell phenotype through STAT3 activation. Oncotarget;7(36):58351-58366

3/23 (六) 16:30-17:00
2 樓 20 教室

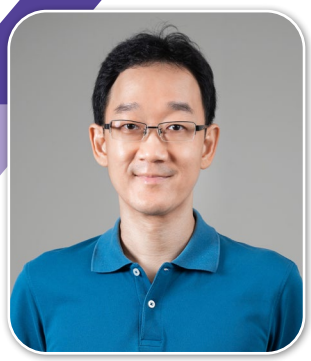
Detecting Cancer Using Liquid-Based Synthetic Biomarkers

莊惠燕
Hui-Yen Chuang

Cancer rates surge globally amid modernization. Timely detection is critical, yet many diagnoses occur late. Liquid biopsy, cost-effective and minimally invasive, holds promise for early intervention. While various biotech companies and clinical trials explore cancer biomarkers for liquid biopsy, only prostate-specific antigen (PSA) is FDA-approved, highlighting challenges like high background signals, inadequate specificity, and low signal intensity.

Our proposed strategy focuses on inducing cancer cells to express synthetic biomarkers, offering advantages like multiplexity, tunable signals, and minimal background interference.

The presentation will summarize our works on mammalian cell-based and genetically engineered-based strategies, as well as the nanoparticle-based and bacteria-based detection approaches. Not only the experimental design will be introduced, but future applications and potential weaknesses will also be discussed. Synthetic biomarker approach offers a promising path for improved cancer detection, and aims to contribute to advancing precision diagnostics and treatment outcomes.



Speaker/

凌嘉鴻
Steven Lin

Institute of Biological Chemistry, Academia Sinica
中研院生化所

Current Position Title:
Assistant Research Fellow

Education/Training:
BS in Biology, University of British Columbia, Canada.
MS in Biochemistry, The Ohio State University, USA.
PhD in Microbiology, University of Illinois, Urbana-Champaign, USA

Professional and Research Experience:
Postdoctoral training with Jennifer Doudna, University of California, Berkeley, USA.

Awards and Honors:
2020 National Taiwan University Excellent Teacher, adjunct professor.
2019 National Taiwan University Excellent Teacher, adjunct professor.
2013-2016 Damon Runyon Cancer Research Foundation postdoctoral fellowship
2012 James R. Beck Graduate Research Fellowship in Microbiology

Selected Publications:
1. Huang RS, Lai MC, Shih HA and Lin S, "A robust, integrated platform for expansion and CRISPR-Cas9 genome editing of primary human natural killer cells", J Exp Med, 218(3):e20201529, (2021).
2. Huang KY, Lin MS, Kuo TC, Chen CL, Lin CC, Chou YC, Chao TL, Pang YH, Ka HC, Huang RS, Lin S, Chang SY and Yang PC, "Humanized COVID-19 decoy antibody effectively blocks viral entry and prevents SARS-CoV-2 infection", EMBO Mol Med, 13(1):e12828, (2021).
3. Huang RS, Shih HA, Lai MC, Chang YJ and Lin S, "Enhanced NK-92 Cytotoxicity by CRISPR Genome Engineering Using Cas9 Ribonucleoproteins", Front Immunol, 11:1008, (2020).
4. Li MH, Waheed AA, Yu JY, Zeng C, Chen HY, Zheng YM, Feizpour A, Reinhard BM, Gummuluru S, Lin S, Freed EO and Liu SL, "TIM-mediated inhibition of HIV-1 release is antagonized by Nef but potentiated by SERINC proteins", Proc Natl Acad Sci, 116(12):5705-5714, (2019).
5. Schumann K*, Lin S*, Boyer E, Simeonov DR, Subramaniam M, Gate RE, Haliburton GE, Ye CJ, Bluestone JA, Doudna JA and Marson A, "Generation of knock-in primary human T cells using Cas9 ribonucleoproteins", Proc Natl Acad Sci, 112:10437- 10442, (2015). *Co-first author.

3/23 (六) 15:00-15:30
3 樓 33 教室

Probing The Immune Regulatory Network in Human Natural Killer Cells by Genome-Wide CRISPR Screens

凌嘉鴻
Steven Lin

Adoptive immunotherapy using genetically engineered T and natural killer (NK) cells is highly effective against lymphoma, but fails to eradicate solid tumors. The immunosuppressive tumor microenvironment (TME) is a complex and challenging barrier to the efficacy of anti-tumor immunity. Overcoming this barrier requires novel approaches to study and reprogram the immune and metabolic regulatory networks in the immune cells. In this talk, I will present our recent work on establishing genome-wide CRISPR genetic screens in primary human NK cells. We are using the CRISPR screens to interrogate the regulatory genes and pathways crucial for NK cell survival in TME. The newly discovered gene functions can help develop NK cell therapeutics more resistant to TME and more effective against solid tumors. In parallel, we are also building a high-throughput screening platform to assist the development of chimeric antigen receptor (CAR) NK cells. The combination of CRISPR and CAR-NK screenings offers unprecedented opportunities to discover and engineer novel functions in NK cells for better immunotherapy against cancers.



Speaker/

陳威儀
Wei-Yi Chen

National Yang Ming Chiao Tung University, Institute of Biochemistry and Molecular Biology
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Current Position Title:
Professor

Education/Training:
1991-1995 B.S. Biology Tunghai University, Taiwan
1995-1997 M.S. Physiology National Cheng-Kung University, Taiwan
2000-2005 Ph.D. Molecular Biology National Defense Medical College, Taiwan
2005-2007 PostDoc Molecular Biology Academia Sinica, Taiwan
2007-2014 PostDoc Biochemistry The Rockefeller University, USA

Professional and Research Experience:
2014-2020 Assistant Professor, Institute of Biochemistry and Molecular Biology
National Yang-Ming University, Taipei, Taiwan
2020-2024 Associate Professor, Institute of Biochemistry and Molecular Biology
National Yang Ming Chiao Tung University, Taipei, Taiwan
2024.02- Professor, Institute of Biochemistry and Molecular Biology
National Yang Ming Chiao Tung University, Taipei, Taiwan

Selected Publications:
1. Liao CC, Wang YS, Pi WC, Wang CH, Wu YM, Chen WY* and Hsia KC*. Structural convergence endows nuclear transport receptor Kap114p with a novel transcriptional repressor function toward TATA-box binding protein. Nature Communications 2023, 14, 5518.
2. Ren Z, Kim A, Huang YT, Pi WC, Gong W, Yu X, Qi J, Jin Jian, Cai L, Roeder RG*, Chen WY*, Wang GG*. A PRC2-Kdm5b axis sustains tumorigenicity of acute myeloid leukemia. PNAS 2022: 119, e2122940119.
3. Huang YT, Cheng AC, Tang HC, Huang GC, Cai L, Lin TH, Wu KJ, Tseng PH, Wang GG, and Chen WY*. USP7 facilitates SMAD3 autoregulation to repress cancer progression in p53-deficient lung cancer. Cell Death & Disease 2021: 12, 880.
4. Lee YL, Ito K, Pi WC, Lin IH, Chu CS, Malik S, Cheng IH, Chen WY*, and Roeder RG*. Mediator subunit MED1 is required for E2A-PBX1-mediated oncogenic transcription and leukemic cell growth. PNAS 2021: 118, e1922864118.
5. Pi WC, Wang J, Shimida M, Lin JW, Geng H, Lee YL, Lu R, Li D, Wang GG, Roeder RG*, and Chen WY*. E2A-PBX1 functions as a coactivator for RUNX1 in acute lymphoblastic leukemia. Blood 2020: 136, 11-23.

3/23 (六) 15:30-16:00
3 樓 33 教室

Mechanism of Oncogenic Fusion Proteins in Leukemia

陳威儀
Wei-Yi Chen

A functional immune system is central to human health, and, at the same time, alterations of normal lymphoid developmental programs can lead to immune deficiencies and a variety of leukemias and lymphomas. The antibody-producing B cells are a vital component of the adaptive immune system that arise from hematopoietic stem cells through lineage specification, commitment, and expansion steps involving various signaling pathways and a hierarchical transcription factor network. E2A is a basic-helix-loop-helix transcription factor that plays a crucial role in B cell development through synergistic functions with other B lineage-restricted factors. E2A is also of significance for certain pediatric leukemias and lymphomas. Thus, chromosomal translocations that fuse the entire activation domain of E2A to the DNA-binding domains of pre-B-cell leukemia factor 1 (PBX1) and hepatic leukemia factor (HLF) result in fusion proteins that lead, respectively, to pre-B cell and pro-B cell acute lymphoblastic leukemias (ALLs) that comprise ~7% of childhood ALL.

In the past five years, we have made significant progress in defining the mechanism underlying the leukemogenesis mediated by oncogenic E2A fusion proteins. We found a set of E2A-PBX1 target genes that included, most prominently, the RUNX1 gene itself, leading to a previously unappreciated model for an E2A-PBX1/RUNX1-based amplification loop in the expression of the oncogenic RUNX1 gene and details of the RUNX1–E2A-PBX1 interaction through the PBX1 homeodomain. In addition, we also found a downstream function of target gene-bound by E2A-PBX1 through interactions with MED1/Mediator and mechanisms underlying cooperative functions of RUNX1 and EBF1 in the activation of E2A-PBX1 target genes. These studies provide a detailed molecular basis for developing new therapeutic strategies.



Speaker/
胡育誠
Yu-Chen Hu

National Tsing Hua University
國立清華大學

See More Here

Current Position Title:
Tsing Hua Chair Professor, Department of Chemical Engineering
Associate Dean, Collage of Engineering

Education/Training:
Ph.D. in Chemical Engineering, University of Maryland, College Park, MD.

Professional and Research Experience:
2022/10 亞洲生物技術聯盟 副理事長
2022/08 清華大學工學院副院長
2021/12 Associate Editor, Frontiers in Bioengineering and Biotechnology (IF 5.8)
2019/08 清華講座教授
2019/07 Co-Chair，2019 亞洲生物技術聯盟 (AFOB) 會議
2018/01 科技部化工學門召集人
2016/07 台灣生物技術與生化工程學會 副理事長
2016/09 國際組織工程與再生醫學學會 亞太分會 會議執行主席

Awards and Honors:
Fellow, American Institute for Medical and Biological Engineering (AIMBE)
Fellow Biomaterials Science and Engineering (FBSE)
Fellow, International Association of Advanced Materials (IAAM)
Fellow, Taiwan Institute of Chemical Engineers (TwIChE)
Fellow, Biotechnology and Biochemical Engineering Society of Taiwan

Selected Publications:
1. Nguyen, NTK, Lee, H.-S., P.-H. Chen, Truong, V.A., Chang, Y.-H., Pham, N.N., Chang, C.-W., Pham, D.-H., Ngo, DKT, Truong, V.A., Dang, Q.T., Chang, Y.-H., Hu, Y.-C.*. 2023 Dec. Enhanced calvarial bone repair using ASCs engineered with RNA-guided Split dCas12a system That co-activates Sox5, Sox6 and long Non-coding RNA H19. Small. 2306612 (Invited submission, IF 15.2).
2. Nguyen, NTK, Tu, Y., Lee, H.-S., Truong, V.A., Chang, Y.-H., Pham, N.N., Chang, C.-W., Lin, Y-H., Lai, P.-L., Chen, P.-H., Parfyonova, Y.V., Menshikov, M., Chang, Y.-H., Hu, Y.-C.*. 2023 June Split dCas12a activator for lncRNA H19 activation to enhance BMSC differentiation and promote calvarial bone healing. Biomaterials. 297:122106. (IF 14.0).

3/23 (六) 16:10-16:40
3 樓 33 教室

CRISPR Gene Editing and Regulation for Tissue Regeneration

胡育誠
Yu-Chen Hu

Gene editing by CRISPR and gene regulation by microRNA or CRISPR activation have dramatically changed the way to manipulate cellular gene expression and cell fate. In recent years, various gene editing and gene manipulation technologies have been applied to control stem cell differentiation to enhance tissue regeneration. This presentation will focus on how to develop CRISPR, CRISPR activation (CRISPRa), CRISPR inhibition (CRISPRi) as well as bi-directional CRISPR-AI gene regulation technologies to control cell differentiation and bone regeneration. RNA editing for microRNA knockdown and tissue regeneration is also discussed.

Keywords: CRISPR, gene activation, gene inhibition, tissue regeneration, bi-directional gene regulation, microRNA editing, stem cells



Speaker/

Wilhelm Gruissem

Biotechnology Center, National Chung Hsing University

Current Position Title:
Distinguished Chair Professor, National Chung Hsing University, Taiwan
Professor emeritus, ETH Zurich, Switzerland

Education/Training:
University of Bonn, Germany, M.S. 1977 (Biological Sciences)
University of Bonn, Germany, Ph.D. 1979 (Genetics and Molecular Biology)

Professional and Research Experience:
President, Global Plant Council, 2010-2015
Founder and President of Board of Directors, Nebion AG, 2008-2021
President, European Plant Science Organization, 2006-2010
Director, Functional Genomics Center Zurich, 2001-2017
Professor of Plant Biotechnology, ETH Zurich, 2000-2022
Director, UCB–Novartis Research Program, 1998-2000
Professor of Plant Biology, University of California at Berkeley, 1984-2000

Awards and Honors:
Awards and Honors:
Fellow, American Association for the Advancement of Sciences, 1998, USA
Chancellor's Professorship, University of California at Berkeley, 1999-2000
Anniversary Prize of the Eiselen Foundation, Germany, 2003
Fellow and Corresponding Member, American Society of Plant Biologists, 2007-present
Shang Fa Yang Award, Academia Sinica, Taiwan, 2013
Highly cited researcher, Thomson Reuters, 2015, 2016
Yushan Fellow, Ministry of Education, National Chung Hsing University, 2018-present

Selected Publications:
1. Bull SE, et al. (2018) Accelerated ex situ breeding of GBSS- and PTST1-edited cassava for modified starch. Sciences Advances, 4(9):eaat6086
2. Van Der Straeten D, et al. (2020) Multiplying the efficiency of biofortification through metabolic engineering. Nature Communications, 11, 5203

3/23 (六) 16:40-17:10
3 樓 33 教室

Genome Editing in Medicine and Agriculture

Wilhelm Gruissem

Genome editing is revolutionizing medicine and agriculture by allowing unprecedented precision in modifying genes of organisms. This is opening new frontiers in understanding and improving animals, plants, and human health. In addition to biological research, genome editing holds promise for curing infectious diseases and various forms of cancer, and it is rapidly advancing therapeutic inventions for treating genetic disorders. Techniques such as CRISPR/Cas9 are enabling medical researchers to modify genes with accuracy, which offers the potential to correct or eliminate gene variants that cause a range of diseases. This makes the prospects of personalized medicine that is tailored to the genetic makeup of individuals increasingly possible, which will be a paradigm shift in healthcare.

In the field of agriculture, genome editing has already become a powerful new tool to improve crops for addressing global challenges of climate change, food security, and sustainable agriculture. Traditional breeding methods such as mutagenesis breeding have revolutionized agriculture during the last century. These methods can now be augmented by precise genetic modifications to develop crops with increased yield, resistance to pest and diseases, and improved nutritional qualities for human health. The speed and precision of genome editing technologies are more efficient compared to conventional breeding methods. Several countries have already adopted regulation to make new breeding tools available in agriculture.

In my presentation I will illustrate the current impact of genome editing in both medicine and agriculture. For example, in December 2023 the U.S. Food and Drug Administration approved the first CRISPR/Cas-based therapy for sickle cell disease. Several genome-edited crops have already been approved for commercial production, and many more are under development. Genome editing is especially useful in crops such as cassava, which is a staple food for one billion people in tropical countries but is difficult to breed with conventional methods because of its highly heterozygous genome. Together, targeted genetic interventions can significantly contribute to human health and sustainable food production.



Speaker/
金翠庭
Tsui-Ting Ching

Institute of Biopharmaceutical Sciences, NYCU
陽明交通大學生物藥學研究所

See More Here

Current Position Title:
Associate professor

Education/Training:
Ph.D. University of Kentucky, Pharmaceutical Sciences, 01/97-12/00

Professional and Research Experience:
Associate Professor, National Yang Ming Chiao Tung University. 2021-present
Assistant Professor, National Yang-Ming university. 2013-2021
Research Investigator, University of Michigan. 2012-2013
Senior Fellow, University of Michigan. 2005-2011
Postdoc, Univ. of California, San Francisco. 2001-2004

Awards and Honors:
Career Development Award, California Breast Cancer Research Program, 2003-2005
Elizabeth Helton Award, University of Kentucky, 2000
Dissertation Year Fellowship, University of Kentucky, 2000-2001
Commonwealth Research Award University of Kentucky, 1999

Selected Publications:
1. Lim, C.Y., Lin, H.T., Kumsta, C., Wang, F.Y., Kang, Y.H., Hansen, M., Ching, T.T.*, and Hsu, A.L.* (2023) "SAMS-1 coordinates HLH-30/TFEB and PHA-4/FOXA activities through histone methylation to mediate dietary restriction-induced autophagy and longevity" Autophagy 2023 Jan;19(1):224-240. (* co-corresponding author)
2. Chen, Y.X., Le, P.T.N., Tzeng, T.T., Tran, T.H., Nguyen, A.T., Cheng, I.H., Huang, C.F.*, Shiao, Y.J.*, and Ching, T.T.* (2021) "Graptopetalum paraguayense Extract Ameliorates Proteotoxicity in Aging and Age-Related Diseases in Model Systems" Nutrients. 13(12):4317 (* co-corresponding author)
3. Chen. C.C., Lim, C.Y., Lee, P.Y., Hsu, A.L., and Ching, T.T. (2020)"S-adenosyl methionine synthetase SAMS-5 mediates dietary restriction-induced longevity in Caenorhabditis elegans" PLoS One 15(11):e0241455.
4. Sural, S., Liang, C.,Y , Wang, F.Y., Ching, T.T.*, Hsu, A.L.* (2020)"HSB-1/HSF-1 pathway modulates histone H4 in mitochondria to control mtDNA transcription and longevity" Sci. Adv. 6(43):eaaz4452. (* co-corresponding author)

3/24 (日) 13:30-14:00
3 樓 33 教室

Sam-Dependent Methylation in Longevity Regulation

金翠庭
Tsui-Ting Ching

Dietary restriction (DR) is widely acknowledged as the most potent intervention to extend lifespan across various animal models. While S-adenosyl methionine synthetase-1 (SAMS-1) has been shown to be a key mediator of the DR response, the specific roles of S-adenosyl methionine (SAM) and SAM-dependent methyltransferase in DR-induced longevity remain largely unexplored. Here, we have shown that DR and SAMS-1 decrease SAM levels in the nucleus and mitochondria, thereby influencing the regulation of longevity. In the nucleus, the diminished availability of SAM leads to reduced H3K4me3 levels by suppressing the activity of SET-2, a histone H3K4 methyltransferase. This reduction of H3K4me3 promotes the expression and activity of two transcription factors, HLH-30/TFEB and PHA-4/FOXA, known regulators of autophagy-related genes. The SAMS-1/SET-2 axis emerges as a nutrient-sensing module, orchestrating the epigenetic activation of HLH-30/TFEB and PHA-4/FOXA to govern autophagy and longevity in response to DR. Within the mitochondria, SAM deficiency activates the mitochondrial unfolded protein response (UPR^{mt}). Our study further suggests that the decrease in mitochondrial tRNA methylation due to mitochondrial SAM deficiency may contribute to the elevated UPR^{mt} and prolonged lifespan observed in SAM-deficient animals. Collectively, our findings indicate that the reduction of SAM levels in various subcellular compartments, driven by dietary restriction, may have a specific impact on the development of the longevity phenotype.



Speaker/
林敬哲
Jing-Jer Lin

Institute of Biochemistry and Molecular Biology, National Taiwan University College of Medicine
臺灣大學醫學院生化分生所

Current Position Title:
Professor

Education/Training:
B. S. 1983, National Taiwan University, Department of Chemistry
M. S. 1985, National Yang-Ming Medical College, Institute of Biochemistry
Ph. D. 1992, University of North Carolina at Chapel Hill, Department of Biochemistry and Biophysics, NC, USA
Postdoctoral Fellow 1992-1995, Fred Hutchinson Cancer Research Center, WA, USA
Postdoctoral Fellow 1995-1996, Princeton University, NJ, USA

Professional and Research Experience:
Professor 2012-present, Inst. Biochem. and Mole. Biol., National Taiwan University College of Medicine
Professor 2002-2012, Inst. Biopharm. Sci., National Yang-Ming University
Associate Professor 1996-2002, Inst. Biopharm. Sci., National Yang-Ming University

Awards and Honors:
Ming-Ning Wang award for Outstanding Contribution to Basic Medical Sciences, Ming-Ning Wang Foundation, 2021

Selected Publications:
1. Lu, K., Wang, H.-C., Tu, Y.-C., Chang, C.-C., Lou, P.-J., Chang, T.-C.*, Lin, J.-J.*: Suppressing c-FOS expression by G-quadruplex ligands inhibits osimertinib-resistant non-small cell lung cancers. J. Natl. Cancer Inst., 115: 1383-1391, 2023.
2. Liu, C.-C., Chan, H.-R., Su, G.-C., Hsieh, Y.-Z., Lei, K.-H., Kato, T., Yu, T.-Y., Kao, Y.-w., Cheng, T.-H., Chi, P.*, Lin, J.-J.*: Flap endonuclease Rad27 cleaves the RNA of R-loop structure to suppress telomere recombination. Nucleic Acids Res., 51: 4398-4414, 2023.
3. Lin, Y.-Y., Li, M.-H., Chang, Y.-C., Fu, P.-Y., Ohniwa, R., Li, H.-W.*, Lin, J.-J.*: Dynamic DNA shortening by telomere-binding protein Cdc13. J. Am. Chem. Soc., 143: 5815-5825, 2021.

3/24 (日) 14:00-14:30
3 樓 33 教室

Mechanistic Analysis of SerpinB2 in Replicative Senescence

林敬哲
Jing-Jer Lin

Aging stands out as perhaps the most fundamental and critical risk factor for a wide spectrum of major diseases, including cancer, diabetes, stroke, and neurodegenerative conditions. In principle, successful alterations in the aging process could present an effective strategy for enhancing the health span. Thus, targeting the underlying mechanisms of aging holds the potential to postpone multiple age-related declines. Normal human diploid fibroblasts exhibit finite proliferative capacity. These fibroblasts reach a terminally non-dividing state, known as replicative senescence or cellular senescence, after approximately 60-80 population doublings (PDs). Upon entering senescence, these cells cease proliferation and are unable to initiate DNA synthesis, even under favorable growth conditions. Replicative senescence is primarily caused by progressive telomere shortening during cell divisions. The "end replication problem," resulting from the incomplete replication of lagging strands, leads to telomere attrition after repeated cycles of cell divisions. This progressive telomere shortening triggers a DNA damage response (DDR), halting cell cycle progression and inducing senescence. Senescent cells activate DNA damage kinases ATM and ATR, initiating phosphorylation and activation of p53. p53, a transcriptional regulator, enforces cell growth arrest by trans-activating various cell cycle regulatory target genes. Among the growth inhibitory genes regulated by p53, p21 binds to and inhibits the kinase activity of cyclin-dependent kinase 2 (CDK2), arresting cells at specific cell cycle stages. Previous research has demonstrated that an elevated level of serpinB2 is sufficient to induce senescence, and conversely, a decreased level of serpinB2 inhibits senescence. These findings indicate that serpinB2 plays a direct role in senescence. SerpinB2, also known as plasminogen activator inhibitor type 2 (PAI-2), is a serine protease inhibitor. The mechanism by which serpinB2 contributes to the arrest of cell proliferation has been elucidated, revealing its association with p21, resulting in p21 stabilization in a proteasome-independent manner. In this presentation, I will present our current findings on the mechanism by which serpinB2 is implicated in the initiation and maintenance of senescence in human normal fibroblasts. Additionally, the potential application of serpinB2 and related molecules in interfering with the aging process will be discussed.



Speaker/
楊尚訓
Shang-Hsun Yang

Department of Physiology, College of Medicine, National Cheng Kung University
國立成功大學醫學院生理學研究所

Current Position Title:
成大生理所 教授； 成大醫學院動物中心 主任； 台灣神經罕見疾病學會 副理事長； Journal of Physiological Investigation 執行主編；中國生理學會 理事

Education/Training:
中興大學 學士，1994-1998；台灣大學 碩士，1998-2000；艾默里大學 博士，2005-2008

Professional and Research Experience:
成大環安衛生安組 組長，2018-2021；成大生理所 副教授，2013-2017; 成大生理所 助理教授，2009-2013

Awards and Honors:
科技部未來科技突破獎 (2017), 科技部吳大猶先生紀念獎 (2016), 李國鼎研究獎 (2016), 第10 屆永信李天德醫藥青年醫藥科技獎 (2015)

Selected Publications:
1. Chan SC, et al. miR-196a provides antioxidative neuroprotection via USP15/Nrf2 regulation in Huntington's disease. Free radical biology & medicine 209, 292-300 (2023).
2. Yang HI, et al. miR-196a enhances polymerization of neuronal microfilaments through suppressing IMP3 and upregulating IGF2 in Huntington's disease. Mol Ther Nucleic Acids 30, 286-299 (2022).
3. Her LS, et al. miR-196a Enhances Neuronal Morphology through Suppressing RANBP10 to Provide Neuroprotection in Huntington's Disease. Theranostics 7, 2452-2462 (2017).
4. Cheng PH, et al. miR-196a ameliorates phenotypes of Huntington disease in cell, transgenic mouse, and induced pluripotent stem cell models. American journal of human genetics 93, 306-312 (2013).
5. Yang SH, et al. Towards a transgenic model of Huntington's disease in a non-human primate. Nature 453, 921-924 (2008).

3/24 (日) 14:40-15:10
3 樓 33 教室

Unraveling Neuroprotective Mechanisms: The Therapeutic Potential of miR-196a in Huntington's Disease

楊尚訓
Shang-Hsun Yang

Huntington's disease (HD) is a debilitating condition triggered by a mutation in the Huntingtin gene, resulting in the emergence of severe neuropathological and behavioral symptoms. Unfortunately, there is currently no cure for HD. Within our laboratory, we are dedicated to exploring the potential therapeutic implications of a specific microRNA, miR-196a, in the context of HD. This interest has been piqued by our observations of abnormal miR-196a expression in non-human primates affected by HD. Our research endeavors have utilized diverse models to elucidate the beneficial effects of miR-196a on HD. Through rigorous investigations, we have not only substantiated these positive outcomes but have also unraveled several critical target genes and their associated mechanisms. Notably, our focus extends to understanding the impact of miR-196a on cytoskeletal dynamics and its antioxidative effects, shedding light on intricate pathways involved in HD pathogenesis. The culmination of our findings strongly supports the notion that miR-196a exerts neuroprotective functions against HD. This discovery holds promising implications for the development of innovative therapeutic strategies aimed at ameliorating the devastating effects of HD. Our research contributes to a growing body of knowledge that may pave the way for transformative interventions and a deeper understanding of the molecular intricacies underlying HD pathology.



Speaker/
陳韻如
Yun-Ru Chen

Genomics Research Center, Academia Sinica
中央研究院基因體研究中心

See More Here

Current Position Title:
研究員兼副主任

Education/Training:
1998-2003 Ph.D., Department of Molecular and Structural Biochemistry, North Carolina State University, USA

Professional and Research Experience:
2023-present Deputy Director, Genomics Research Center, Academia Sinica, Taiwan
2022-2025 President-elect, Asia Pacific Protein Association (APPA)
2022-present Adjunct Professor/Adjunct Research Fellow, Biomedical Translation Research Center, Academia Sinica, Taiwan
2021-present Professor/Research Fellow, Genomics Research Center, Academia Sinica, Taiwan
2021-present Adjunct Professor, Dept. of Biochemical Science & Technology, National Taiwan University, Taiwan
2014-2021 Associate Research Fellow, Genomics Research Center, Academia Sinica, Taiwan
2015-2021 Adjunct Associate Professor, Dept. of Biochemical Science & Technology, National Taiwan University, Taiwan
2015-2019 The World Academy of Sciences (TWAS) Young Affiliate
2014-2017 Council Member of Asia Pacific Protein Association (APPA)
2007-2014 Assistant Research Fellow, Genomics Research Center, Academia Sinica, Taiwan

Awards and Honors:
2023 中華扶輪教育基金會 2022-23 年度「傑出 / 特殊人才」獎。
2022 第 19 屆國家新創獎。「對抗漸凍人及相關神經退化疾病的結構專一型單株抗體」
2021 第十九屆有庠科技論文獎

Selected Publications:
1. Yu-Jen Chang et al., Yun-Ru Chen*. Sulfated disaccharide protects membrane and DNA damages from poly-glycine-arginine in ALS. (2023). In revision. Science Advances.
2. Yao-Hsiang Shih§, Ling-Hsien Tu§ et al., and Yun-Ru Chen*. TDP-43 interacts with amyloid-β, inhibits fibrillization, and worsens pathology in a model of Alzheimer's disease. Nature Communications. 11: 5950 (2020)

3/24 (日) 15:10-15:40
3 樓 33 教室

Pathogenic Mechanism and Therapeutic Potential for Misfolded Proteins in ALS

陳韻如
Yun-Ru (Ruby) Chen

ALS is a motor neuron disease that affects upper and lower MNs of patients. People with ALS are paralyzed with an average survival time of three to five years. Currently, there are no effective treatment. Two protein misfolding problems were identified in ALS as well as frontotemporal dementia (FTD). They are TDP-43 and dipeptide repeats (DPRs) generated from the C9ORF72 hexanucleotide repeat expansion. Over 95% ALS patients have TDP-43 cytoplasmic aggregation in the disease lesions, where hyperphosphorylated TDP-43 were found. The pathogenesis of TDP-43 aggregation is still not fully understood. Besides, hexanucleotide repeat expansion in C9ORF72 (C9) is the most prevalent mutation among ALS patients. The patients carry over ~30 to hundreds or thousands of repeats translated to dipeptide repeats (DPRs) where poly-glycine-arginine (GR) and poly-proline-arginine (PR) are most toxic. The structure-function relationship is still unknown. Here, I will discuss our recent discovery on toxic misfolded TDP-43 oligomers and novel mechanism for arginine-rich DPRs and the therapeutic strategy by anti-TDP-43 oligomer specific antibody and a sulfated disaccharide compound.



Speaker/
楊慕華
Muh-Hwa Yang

National Yang Ming Chiao Tung University

Current Position Title:
Chair Professor of Institute of Clinical Medicine, National Yang Ming Chiao Tung University,
Senior Vice President of National Yang Ming Chiao Tung University
Director of Department of Oncology, Taipei Veterans General Hospital

Education/Training:
M.D., National Yang Ming University
Ph.D. National Yang Ming University

Professional and Research Experience:
Associate Professor of Institute of Clinical Medicine, National Yang Ming Chiao Tung University
Attending physician of Division of Hematology-Oncology, Taipei Veterans General Hospital

Awards and Honors:
Dr. Jiong-Lin Chen's Translational Medicine Chair Professor, The Joint Annual Conference of Biomedical Science, Taiwan (2023)
Outstanding research award, Ministry of Science and Technology (2016)
Outstanding research award, National Science Council (2013)

Selected Publications:
1. Chang YW, Yang MH*, et al. A CSF-1R-blocking antibody/IL-10 fusion protein increases anti-tumor immunity by effectuating tumor-resident CD8+ T cells. Cell Rep Med 2023; 4:101154.
2. Chung CH, Yang MH*, et al. Ferroptosis signature shapes the immune profiles to enhance the response to immune checkpoint inhibitors in head and neck cancer. Adv Sci (Weinh) 2023;10:e2204514.
3. Chen HY, Yang MH*, et al. Snail regulated microRNA-21 suppresses NLRP3 inflammasome activity to enhance cisplatin resistance. J Immunother Cancer 2022;10: e004832.
4. Li CF, Chang YC*, Yang MH*, et al. Snail-induced claudin-11 prompts collective migration for tumor progression. Nat Cell Biol 2019; 21: 251-262.
5. Hwang WL*, Yang MH*, et al. Tumor stem-Like cells-derived exosomal RNAs prime neutrophils for facilitating tumorigenesis of colon cancer. J Hematol Oncol 2019;12:10.

3/24 (日) 11:20-12:00
3 樓 30 教室

Unraveling the Multifacted Pathogenic Role of Tumor-Associate Macrophages

楊慕華
Muh-Hwa Yang

Tumor-associated macrophages (TAMs) constitute a significant portion of immune cells infiltrating tumors, fostering an immunosuppressive tumor microenvironment (TME) that hampers antitumor immune responses and aids in metastatic tumor establishment. Enhanced TAM infiltration correlates with poorer cancer prognosis, making them a prominent focus in TME research over the past decade. Numerous strategies have been explored to either eliminate or repolarize TAMs with the goal of reshaping the TME. However, the result of anti-TAM treatment is unsatisfactory. Our previous studies have highlighted the intricate and bidirectional interaction between TAMs and cancer cells throughout cancer progression. This includes processes such as exosome-mediated M2 polarization, CCL2/CCL5-mediated recruitment of TAMs by cancer cells, and TAM-secreted IL35 promoting metastatic cancer cell colonization. Additionally, tumor-secreted exosomes have been found to dampen the activity of the NLRP3 inflammasome in TAMs, contributing to reduced chemotherapy responsiveness in progressive cancer cases. Furthermore, our recent observations reveal that hypoxia induces the downregulation of MHC expression in both cancer cells and TAMs through long noncoding RNA-mediated MHC degradation. We have also developed a bispecific protein aimed at targeting TAMs while concurrently stimulating exhausted T cells to enhance antitumor efficacy. In summary, while TAMs may not always represent the initial responders to antitumor immunotherapy, comprehending their pathogenic role holds promise in devising synergistic strategies for effective antitumor immunotherapy.



Speaker/
郭呈欽
Cheng-Chin Kuo

National Health Research Institutes, Institute of Cellular and System Medicine

Current Position Title:

2024/01 present Director, Institute of Cellular and System Medicine, National Health Research Institutes

2020/04 present Investigator, Institute of Cellular and System Medicine, National Health Research Institutes

Education/Training:

1997-2001 Ph.D. in Life Science, National Defense Medical Center, Taipei, Taiwan

Professional and Research Experience:

1. Inflammametabolism in vascular diseases
2. Cancer metabolism and tumor microenvironment
3. Pathophysiological interactions between cancer and cardiovascular disease

Awards and Honors:

1. 2022 NHRI Research Achievement Award.
2. 2021 MOST Outstanding Research Award.
3. Cheng-Chin Kuo, Kenneth Kun-Yu Wu. 5-methoxytryptophan and its synthetic analogs: A new class of therapeutic agents for inflammatory disorders and cancer. 19th Pharmaceutical Technology & Research Development Award in recognition of outstanding achievement by Ministry of Health and Welfare and Ministry of Economic Affairs (2020).
4. Cheng-Chin Kuo, Kenneth Kun-Yu Wu. 5-methoxytryptophan and its synthetic analogs: A new class of therapeutic agents for inflammatory disorders and cancer. 15th , 16th , 17th National Innovation Award renewal and issue the Excelsior Award in recognition of continuing innovations and advancements in R&D Award in the Academic Research Category by the Research Center for Biotechnology and Medicine Policy (2018, 2019, and 2020).

Selected Publications:

1. Kuo, CC*, Wu JY, Wu, KK*. Cancer-derived extracellular succinate: A driver of cancer metastasis. J Biomed Sci. 2022; 29: 93. (*Co-corresponding author)
2. Lee, GL., Liao, TL., Wu, JY., Wu KK*, Kuo CC*, Restoration of 5-methoxytryptophan protects against atherosclerotic chondrogenesis and calcification in ApoE−/− mice fed high fat diet. J Biomed Sci. 2021; 28: 74. (*Co-corresponding author)
3. Wu JY, Huang TW, Hsieh YT, Wang YF, Yen CC, Lee GL, Yeh CC, Peng YJ, Kuo YY, Wen HT, Lin HC, Hsiao CW, Wu KK, Kung HJ, Hsu YJ, Kuo CC*. Cancer-derived succinate promotes macrophage polarization and cancer metastasis via succinate receptor. Mol Cell. 2020; 77(2):213-227.e5.

3/24 (日) 13:00-13:40
3 樓 30 教室

SDHB/succinate-mNADK axis as a Driver of Cancer Metastasis

郭呈欽
Cheng-Chin Kuo

The importance of metabolism in cancer has become an emerging theme in cancer research. Cancer cells under oncogenic and oxidative stresses exhibit unbalanced dynamics tilting towards mitochondrial metabolism dysfunction and dysregulated electron transport chain resulting in secretion of bioactive metabolites and accumulation of ROS. Consequently, cancer cells undergo metabolic reprogramming to meet the demands of increased cell proliferation under ROS overload. This adaptive process requires a significant increase in the supplementation of NADPH. We used metabolomics coupled with in vitro and in vivo experiments to discover that cancer-derived extracellular succinate activates succinate receptor SUCNR1 to drive the PI-3K-HIF-1α-mediated tumor-associated macrophage polarization and cancer metastasis. The suppression of succinate dehydrogenase B (SDHB) activity increases cancer succinate secretion, subsequently upregulating the expression of cancer mitochondrial NAD kinase (mNADK), the primary enzyme responsible for de novo mitochondrial NADP+/NADPH biosynthesis. Furthermore, mNADK knockdown reduced mitochondrial NADP+ and NADPH levels and suppressed cancer growth and migration, suggesting that extracellular succinate may alter mitochondrial metabolism and dynamics via increasing mNADK. Kaplan-Meier curves from TCGA data analysis show that the high expression of mNADK mRNA in tumors is significantly related to the poor survival rate of cancer patients. These results suggest that the SDHB/succinate-mNADK axis emerges as a pivotal player in cancer mitochondrial dynamics and metastasis.



Speaker/
胡春美
Chun-Mei Hu

Genomics Research Center, Academia Sinica, Taiwan

Current Position Title:
Assistant Research Fellow

Education/Training:
- Ph.D., Graduate Institute of Biochemistry and Molecular Biology, National Taiwan University, College of Medicine, Taipei, Taiwan, 2006/9~2010/1
- Post-doctoral Research Fellow, Graduate Institute of Biochemistry and Molecular Biology, National Yang-Ming University, Taipei, Taiwan, 2010/2~2012/7
- Post-doctoral Research Fellow, Department of Biological Chemistry, School of Medicine, University of California, Irvine. Irvine CA 92697, USA, 2012/9~2013/10
- Post-doctoral Research Fellow, Genomic Research Center, Academia Sinica, Taipei, Taiwan, 2013/11~2014/10

Professional and Research Experience:
- Adjunct Assistant Professor, Graduate Institute of Biochemistry and Molecular Biology, National Yang Ming Chiao Tung University, Taipei, Taiwan, 2021/9-present
- Assistant Research Fellow, Genomics Research Center, Academia Sinica, 2019/12~present
- Adjunct Assistant Professor, Graduate Institute of Biomedical Sciences, China Medical University, Taichung, Taiwan, 2016/2~present
- Assistant Research Specialist, Genomics Research Center, Academia Sinica, Taipei, Taiwan, 2014/11~2019/12

Awards and Honors:
- Juei-Low Sung foundation Distinguished Thesis Award, Taiwan. 2019
- Top Ten Scientific Research Disruptive Innovation Papers Award, Taiwan. 2020
- One of Selected Scientific Research paper, Academia Sinica, Taiwan. 2019, 2022

Selected Publications:
1. Hu CM* et al. Oncogenic KRAS, Mucin 4, and Activin A-mediated Fibroblast Activation Cooperate for PanIN Initiation. Adv. Sci. 2023; 2301240:1-20
2. Chen YI, Chang CC, Hsu MF, Jeng YM, Tien YW, Chang MC, Chang YT, Hu CM*, and Lee WH*. Homophilic ATP1A1 Binding Induces Activin A Secretion to Promote Epithelial-Mesenchymal Transition of Tumor Cells and Myofibroblast Activation. Nat Commun. 2022; 13: 2945.
3. Hu CM* et al. High glucose triggers nucleotide imbalance through O-GlcNAcylation of key enzymes and induces KRAS mutation in pancreatic cells. Cell Metabolism. 2019; 29:1334-1349.
4. Hu CM et al. Tumor cells require thymidylate kinase to prevent dUTP incorporation during DNA repair. Cancer cell. 2012; 22:36-50.

3/24 (日) 13:40-14:40
3 樓 30 教室

Decoding Pancreatic Cancer Initiation: Understanding Metabolic Imbalance and Microenvironmental Changes

胡春美
Chun-Mei Hu

Over 90% of pancreatic ductal adenocarcinoma (PDAC) patients harbor KRAS mutations. Our study sheds light on how disrupted sugar metabolism, particularly O-GlcNAcylation at T734 of Ribonucleotide Reductase M1 (RRM1), heightens genomic alterations, triggers de novo oncogenic KRAS mutations, and initiates transformation in pancreatic cells. Through mouse experiments, we confirmed that excessive sugar intake in daily drinks leads to DNA damage and protein O-GlcNAcylation primarily in pancreatic tissue, regulated by the GFAT-to-PFK activity ratio that governs UDP-GlcNAc levels. On the other hand, N-Acetyl-D-glucosamine (GlcNAc) triggers DNA damage in various organs. However, inhibiting O-GlcNAcylation or bolstering the dNTP pool counteracts this damage, mirroring the impact in pancreatic cells treated with high glucose. These findings affirm how high glucose diets and escalated glucosamine intake induce heightened O-GlcNAcylation, disrupting regular pancreatic metabolism, leading to genomic instability and oncogenic KRAS mutations, and potentially initiating pancreatic tumorigenesis. However, oncogenic KRAS alone is insufficient to initiate pancreatic intraepithelial neoplasia (PanIN), the precursor to PDAC. Our optic-clear 3D histology of pancreases in 2-week-old Pdx1-Cre; LSL-KrasG12D/+ (KC) mice unveiled early PanIN occurrences, independent of their physical location yet significantly associated with Muc4 overexpression and αSMA+ fibroblasts. Mechanistically, KrasG12D/+ pancreatic cells elevate Muc4 expression through genetic alterations, driving proliferation and fibroblast attraction via Activin A secretion, culminating in PanIN development. Follistatin-mediated Activin A blockage inhibited fibroblast recruitment and PanIN growth in KC mice. This intricate interplay between KrasG12D/+ mediated Muc4 alterations and induced fibroblast changes emerges as pivotal in PanIN initiation, offering potential avenues for early diagnostic and management strategies in PDAC.



Speaker/
陳嘉霖
Chia-Lin Chen

Department of Life Sciences and Institute of Genome Sciences, National Yang Ming Chiao Tung University, Taipei, Taiwan

Current Position Title:
Assistant Professor

Education/Training:
Tunghai University, Animal Science, B.S. (2001)
National Central University, Life Science, M.S. (2003)
University of Southern California, Genetic, Molecular and Cellular Biology, Ph.D. (2016)

Professional and Research Experience:
2022- present Assistant Professor, NYCU, Taiwan
2021-2022 Visiting Scientist, University of British Columbia, Canada
2016-2021 Independent Postdoctoral Research Fellow, NHRI, Taiwan

Awards and Honors:
Predoctoral fellowship for overseas study, Ministry of Education, Taiwan (2013)
California Institute for Regenerative Medicine Traineeship (2014-2016)
MOST Independent Postdoctoral Research Funding, Taiwan (2017-2020)

Selected Publications:
• Chen CL, Hernandez JC, Uthaya Kumar DB, et al. Profiling of Circulating Tumor Cells for Screening of Selective Inhibitors of Tumor-Initiating Stem-Like Cells. Adv Sci. 2023;10(14):e2206812
• Chen CL, Hsu SC, Chung TY, et al. Arginine is an epigenetic regulator targeting TEAD4 to modulate OXPHOS in prostate cancer cells. Nat Commun. 2021;12(1):2398.
• Chen CL, Uthaya Kumar DB, Punj V, et al. NANOG Metabolically Reprograms Tumor-Initiating Stem-like Cells through Tumorigenic Changes in Oxidative Phosphorylation and Fatty Acid Metabolism. Cell Metab. 2016;23(1):206-219.

3/24 (日) 14:20-15:00
3 樓 30 教室

TEAD4 Modulates Ferroptosis to Acquire Drug Resistance in Castration-Resistant Prostate Cancer

陳嘉霖、許勝捷、林今昱、郭明翰、龔行健
Chia-Lin Chen, Shen-Chieh Hsu, Ching-Yu Lin, Ming-Han Kuo, Shauh-Der Yeh, Hsing-Jien Kung

Prostate cancer stands out as the most frequently diagnosed cancer in men worldwide, remaining a prominent cause of cancer-related deaths among men. In Taiwan, where the elderly population is rapidly growing, there has been a noticeable increase in its incidence. For men aged 65 or older, the chance of developing prostate cancer is 1 in 6, rising to 1 in 2 for those aged 80. Standard treatments for prostate cancer include surgery, radiation therapy, and hormone ablation therapy, mainly involving androgen depletion treatment.

In the initial phases, hormone therapy often proves effective in treating prostate cancer. However, the survival rate sharply declines if the tumor becomes resistant to anti-androgen therapies, commonly referred to as castration-resistant prostate cancer (CRPC). Within a span of 2 years, around ninety percent of patients undergo a transition to a hormone-refractory state and experience an inevitable tumor relapse. A critical challenge in this progression of prostate cancer is the shift from an androgen-dependent to an independent state, commonly known as the castration-resistant state. Currently, there is no effective treatment for relapsed prostate cancer, highlighting the urgent need to identify targets for intervention and develop therapeutics capable of overcoming castration resistance.

Ferroptosis, a recently identified form of cell death with distinct characteristics, has emerged as a significant player in cancer biology. Recent findings emphasize the metabolic adaptability of cancer cells, revealing insights into how metabolic rewiring is pivotal for cancer cell persistence, dedifferentiation, and expansion. Notably, some cases link this metabolic reprogramming to an increased sensitivity to ferroptosis, offering new avenues for treating therapy-resistant tumors. Nevertheless, the key factors influencing ferroptosis in the context of therapeutic resistance remain unclear. In this study, we showed that TEAD4 plays a crucial role in driving the development of therapeutic resistance in CRPCs, particularly through its modulation of the ferroptotic pathway. A deeper understanding of TEAD4 regulating ferroptosis sensitivity holds promise for uncovering innovative therapeutic strategies to enhance cancer treatment.



Speaker/
邱政洵
Cheng-Hsun Chiu

Chang Gung Memorial Hospital, Chang Gung University College of Medicine

Current Position Title:
Professor and Vice Superintendent

Education/Training:
1. PhD, Institute of Clinical Medical Sciences, Chang Gung University College of Medicine, Taoyuan, Taiwan.
2. Post-doc fellow, Department of Pediatrics, University of British Columbia, Vancouver, Canada.

Professional and Research Experience:
Infectious diseases, Genomics, Microbiome, Pediatrics, Vaccine

Awards and Honors:
1. Professor Tayou Wu Award, 2003. National Science Council, Taiwan, R.O.C.
2. Outstanding Research Award, 2010. National Science Council, Taiwan, R.O.C.
3. Outstanding Research Award, 2022. National Science and Technology Council, Taiwan, R.O.C.

Selected Publications:
1. Yeh YM, Cheng HT, Le PH, et al. Implementation of fecal microbiota transplantation in a medical center for recurrent or refractory Clostridioides difficile infection and report of preliminary outcome. Biomed J 2022;45:504-11.
2. Chen CC, Chiu CH. Current and future applications of fecal microbiota transplantation for children. Biomed J 2022;45:11-8.
3. Le PH, Chiu CT, Yeh PJ, et al. Clostridium innocuum infection in hospitalised patients with inflammatory bowel disease. J Infect 2022;84:337-42.
4. Janapatla RP, Dudek A, Chen CL, et al. Marine prebiotics mediate decolonization of Pseudomonas aeruginosa from gut by inhibiting secreted virulence factor interactions with mucins and enriching Bacteroides population. J Biomed Sci 2023;30:9.

3/23 (六) 14:20-15:00
3 樓 31 教室

Update on Gut Microbiome and Microbiome-Based Therapeutics

邱政洵
Cheng-Hsun Chiu

The role of gut microbiome in human health is increasingly being understood and its mechanisms used as treatments for clinical disease are being elucidated. Fecal microflora transplantation (FMT) has been used to treat recurrent Clostridium difficile infections (rCDI) since 2013. Due to the increasing use of broad-acting antibiotics, the frequency and severity of C. difficile infections are soaring, the number of susceptible patients is expanding, and therefore FMT is becoming increasingly accepted as a treatment for rCDI. It is an effective and safe intervention, and studies from multiple centers in different countries have consistently reported that the cure rate can reach >90%. Research confirmed that FMT can restore patients' immunity to eliminate bacterial pathogens such as C. difficile through a variety of mechanisms (colonization resistance). Our understanding of how the microbiome affects health and treat disease is increasing through multi-omics research, indicating that human microbiome data should be incorporated into "precision medicine" algorithm. According to previous studies, it is estimated that the number of microorganisms in the intestine is 10 times more than that of human cells (100 trillion). These more than 1,000 species of microorganisms play a key role in the maintenance of health and the occurrence of diseases. When the intestinal flora is imbalanced (dysbiosis), multiple organ systems may show dysfunction due to the existence of gut lung axis, gut heart axis, gut brain axis, and so on. Recent studies indicated that gut dysbiosis is associated with less favorable outcome of cancer patients who received immunotherapy. This talk will focus on the role of intestinal microbiota in C. difficile infection and colonization, and also report the rule of donor selection, patient indication and the outcome of FMT in the treatment of rCDI. The latest progress in the treatment of infections and its potential as a treatment option in other diseases will also be reviewed.



Speaker/
吳偉愷
Wei-Kai Wu

National Taiwan University College of Medicine
National Taiwan University Hospital

Current Position Title:
2022/07~ Adjunct Assistant Professor, Department of Internal Medicine, National Taiwan University College of Medicine
2020/12~ Research physician, Department of Medical Research, National Taiwan University Hospital

Education/Training:
2016 ~ 2019 Ph.D. Nutrition and Dietetics, Institute of Food Science and Technology, National Taiwan University
2002 ~ 2009 M.D. College of Medicine, Tzu-Chi University, Hualien, Taiwan

Professional and Research Experience:
2016 ~ 2020 Attending physician, Department of Internal Medicine, National Taiwan University Hospital Bei-Hu branch
2019 Visiting scholar of Microbiome Research, Taiwan MOST-NIH Bilateral Science and Technology Cooperation Meeting
2018 Visiting scholar, Jeffrey Gordon's Lab, Washington University, St. Louis, USA

Awards and Honors:
2021 NTUH Recipient of the Outstanding Research Award for Junior Faculty
2019 Professor Sung Juei-Low's Academic Prize for Excellent Research
2018 Young Investigator Award (1st Prize), Taiwan Digestive Disease Week 2018
2018 Early Career Investigator Award, DDW 2018, Washington D.C., USA

Selected Publications:
1. Panyod S, Wu WK, et al., Ginger essential oil and citral ameliorates atherosclerosis in ApoE-/- mice by modulating trimethylamine-N-oxide and gut microbiota. npj Sci Food. 2023 May 20;7(1):19. (Co-first author)
2. Chen RA, Wu WK, et al., Dietary Exposure to Antibiotic Residues Facilitates Metabolic Disorder by Altering the Gut Microbiota and Bile Acid Composition. mSystems. 2022 Jun 28;7(3):e0017222. (Co-first author)
3. Wu WK et al., Identification of TMAO-producer phenotype and host-diet-gut dysbiosis by carnitine challenge test in human and germ-free mice. Gut. 2019 Aug;68(8):1439-1449.

3/23 (六) 15:20-16:00
3 樓 31 教室

Quantification of Fecal bbu Genes Predicts L-carnitine-Mediated TMAO Production

吳偉愷
Wei-Kai Wu

Gut microbial metabolism of L-carnitine, leading to TMAO production, offers a plausible explanation for the association between red meat consumption and cardiovascular diseases. However, the specific gut microbes and the relevant genes involved in L-carnitine-mediated TMAO production are not fully understood. In this study, we performed an integrated analysis of 292 oral carnitine challenge tests and shotgun metagenome sequencing of fecal samples. We identified that the microbial bbu gene cluster is likely the primary contributor to L-carnitine mediated TMAO formation. Furthermore, we detected novel anaerobes, such as the Oscillospiraceae bacterium Marseille-Q3528, which possess the bbu gene cluster and are significantly correlated with TMAO production from L-carnitine. We isolated these bacteria and validated their TMA/TMAO-producing capability both in vitro and in vivo. Lastly, we developed a qPCR-based method to quantify fecal bbuB and verified its correlation with TMAO levels resulting from L-carnitine. Our findings pave the way for microbiome-based precision nutrition.



Speaker/
賴信志
Hsin-Chih Lai

REVIVEBIO CO.

Current Position Title:
General Manager, REVIVEBIO CO.

Education/Training:
1982-1986 B.S, Department of Medical Technology, National Taiwan University
1986-1988 M.S, Institute of Microbiology & Immunology, National Yang-Ming University
1990-1994 PhD, Department of Pathology, University of Cambridge, UK

Professional and Research Experience:
1994-2006 Associate Professor, Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University
2006–2007 Professor, Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University
2007–2023 Professor and Director, Graduate Institute of Medical Biotechnology and Laboratory Sciences, Chang Gung University

Awards and Honors:
2006 Ching-Sing Medical Researcher Award from the National Taiwan University
2015 Best Research award, Chang Gung University
2019 MOST Outstanding Research Award
2020 Best Research award, Chang Gung University

Selected Publications:
1.Gut microbiota modulates COPD pathogenesis: role of anti-inflammatory Parabacteroides goldsteinii lipopolysaccharide. HC Lai, TL Lin, TW Chen, YL Kuo, CJ Chang, TR Wu, CC Shu, YH Tsai, Simon Swift, CC Lu*. Gut. 2022 Fed;71(2):309-321.
2.Role of gut microbiota in identification of novel TCM-derived active metabolites. TL Lin, CC Lu,WF Lai, TS Wu, JJ Lu, YM Chen, CM Tzeng, HT Liu, H Wei, HC Lai*. Protein & Cell. 2021 May;12(5):394-410.
3.The gut commensal Parabacteroides goldsteinii plays a predominant role in the anti-obesity effects of polysaccharides isolated from Hirsutella sinensis mycelium. TR Wu, CS Lin, CJ Chang,TL Lin, Jan Martel, YF Ko, David M Ojcius, CCn Lu, John D Young and HC Lai*. Gut. 2019 Feb;68(2):248-262.
4.Ganoderma lucidum reduces obesity in mice by modulating the composition of the gut microbiota. CJ Chang, CS Lin, CC Lu, Jan Martel, YF Ko, David M. Ojcius, SF Tseng, TR Wu, YY Margaret Chen, John D. Young, HC Lai*. Nat. Commun. 2015 Jun 23;6:7489.

3/23 (六) 16:00-16:40
3 樓 31 教室

Current Development of The Next Generation Probiotics

賴信志
Hsin-Chih Lai

Studies on the role of gut commensal bacteria in health development have rapidly attracted much more attention beyond the classical pathogens over the last decade. Gut microbiota dysbiosis is closely related to development of intra- and extra-intestinal, chronic inflammation related diseases such as colitis, obesity/metabolic syndromes, diabetes mellitus, liver diseases, cardiovascular diseases and also cancer and neurodegenerative diseases. To circumvent these difficulties, the strategy of modulating the structure of the gut microbiota and identification of beneficial bacteria have been under intensive studies and shed more light on amelioration of these inflammation related diseases such as obesity. Emerging next generation probiotics (NGP) start to reveal as new preventive and therapeutic tools. These include Prevotella copri and Christensenella minuta controlling insulin resistance, Parabacteroides goldsteinii, Akkermansia muciniphila and Bacteroides thetaiotaomicron restoring obesity and insulin resistance, Faecalibacterium prausnitzii protecting mice against intestinal diseases, and Bacteroides fragilis reducing inflammation and showing anticancer effect. New NGP and postbiotics will soon be commercialized for targeted therapy on specific inflammation related diseases. The important roles of next generation probiotics and gut microbiota normobiosis on the maintenance of intestinal integrity and homeostasis are emphasized.



Speaker/
陳柏霖
Bo-Lin Chen

瑞昶科技股份有限公司
Veolia Group-Apollo Technology Co., Ltd.

Current Position Title:
Project Manager

Education/Training:
Doctoral degree (2007-2015)
Graduate Institute of Toxicology, College of Medicine, National Taiwan University

Professional and Research Experience:
2015-2018 Taiwan Food and Drug Administration/ Research and development substitute services
2018-2020 Yuchen Environmental Consulting/manager
2020-Present Veolia group-Apollo Technology Co., LTD./project manager

Selected Publications:
1. Liao YS, Kuo JH, Chen BL, Tsuei HW, Lin CY, Lin HY, Cheng HF. Development and Validation of the Detection Method for Wheat and Barley Glutens Using Mass Spectrometry in Processed Foods. Food Anal. Methods (2017) 10: 2839-2847.
2. Chen BL, Sheu ML, Tsai KS, Lan KC, Guan SS, Wu CT, Chen LP, Hung KY, Huang JW, Chiang CK, Liu SH. CCAAT-Enhancer-Binding Protein Homologous Protein Deficiency Attenuates Oxidative Stress and Renal Ischemia-Reperfusion Injury. Antioxid Redox Signal. (2015) 23:1233-45. Biochem. (2014) 25:1226-1234.

3/23 (六) 13:30-14:00
2 樓 29 教室

The Applications of Toxicological and Eco-Toxicological Information in Chemical Risk Assessment

陳柏霖
Bo-Lin Chen

Toxicology is applied in different human and environmental safety fields, like food supplements, medicine, biocides, chemical substances, and medical devices. In chemical regulation, toxicological and eco-toxicological data is used to identify substance hazards to establish proper management policy and promote green alternatives development. The Regulations of New and Existing Chemical Substances Registration were announced in 2014 in Taiwan. For standard registration, registrants need to submit up to 9 items of toxicological information and 16 items of eco-toxicological information. The information need to be further reviewed and analyzed for making regulation policy and establishing the hazard document which is used to communicate with public. Furthermore, the information also used in chemical risk assessments. In hazard assessment, all toxicological and eco-toxicological data would undergo comprehensive review and discussion to identify chemical hazards. Derived No-Effect Level (DNEL) or Predicted No-Effect Concentration (PNEC) are also be determined in this process. In this presentation, the process of establishing a hazard assessment for a chemical substance will be explained, and the basic principles of setting uncertainty factors will be discussed.



Speaker/
陳婉昕
Wannh-Sin Chen

工業技術研究院生醫所 BDL,Industrial Technology Research Institute (ITRI)

Current Position Title:
Deputy project director in Regeneration Medicine Technology Division, BDL,ITRI

Education/Training:
M.S. Institute of microbiology and immunology in Yang-Ming University
Ph.D. Institute of life sciences, Academia Sinica, National Heath Research Institute and National Defense Medical College joint program (Life science), Taiwan

Professional and Research Experience:
2019-present Deputy Project Director, Regeneration Medicine Technology Division, Biomedical Engineering Research Laboratories,ITRI, Taiwan
2013-2019 Deputy Division Director, Tissue Regeneration Product Technology Division, Biomedical Engineering Research Laboratories, ITRI, Hsinchu, Taiwan

Awards and Honors:
2018 Excellent award of research from Industrial Technology Research Institute
2019 Best Poster Award, The 10th Meeting of Asia Cellular Therapy Organization, Japan
2020 The 17th National Innovation Award, Taiwan
2013-present Taiwan Association for Cell Therapy,Founding member 台灣細胞醫療協會常務理事 / 理事
2014-2015 TFDA Regenerative medicine consulting committee 再生醫療諮議小組委員

Selected Publications:
1.Safety and efficacy of intracoronary artery administration of human bone marrow-derived mesenchymal stem cells in STEMI of Lee-Sung pigs—A preclinical study for supporting the feasibility of the OmniMSC-AMI phase I clinical trial. W Chen, C-H Hou, Y-L Chen,H-H Shen, C-H Lin, C-Yi Wu,M-H Lin,C-C Liao, J-J Huang, C-Y Yang, Y-C Li, H-Kn Yip. Front. Cardiovasc. Med., 29 March 2023 Volume 10:1153428.
2.Validation study of a new reconstructed human epidermis model EPiTRI for in vitro skin irritation test according to OECD guidelines. C-C Liao, C-Y Wu, M-H Lin, F-K Hsieh, L-T Hsu, S-Y Chang, K-J Chen, H-T Huang, H-C Hsu, C-H Lin, P-J Lin, H-M Lai, H Kojima, HTodo, S-J Lin, J-H Li, Wannhsin Chen. Toxicol In Vitro. 2021 Sep;75:105197.

3/23 (六) 14:00-14:30
2 樓 29 教室

The Current Status and Prospects of Skin Equivalent Platform Technology in Cosmetic Safety Assessment

仿生皮膚平台技術作為化妝品安全性評估的現況與展望

陳婉昕
Wannh-Sin Chen

Cosmetic safety evaluation is a pivotal requirement for market approval and new ingredient registration. Since the 2013 European ban on animal testing, there has been a significant shift towards alternative methodologies in alignment with contemporary principles of animal welfare. Various alternative methods, including in vitro cellular, tissue-based, reconstructed human tissue, and computational assay models, have emerged and been employed for cosmetic safety assessments, covering key parameters such as eye and skin irritation, skin corrosion, and sensitization. This presentation focuses on the Skin Equivalent Platform Technology in cosmetic safety assessment, placing special emphasis on adhering to the OECD Guidelines for eye and skin irritation, and skin corrosion. The introduction of our reconstructed human skin equivalent, EPiTR, in skin irritation and corrosion testing will be discussed. Additionally, we will explore the latest technological advancements and innovations in this field, elucidating their practical applications and regulatory compliance.



Speaker/
楊靜欽
Ching-Chin Yang

台灣檢驗科技股份有限公司 SGS

Current Position Title:
Supervisor

Education/Training:
PhD. Graduate Institute of Toxicology, National Taiwan University
MSc. Graduate Institute of Oral Biology, National Taiwan University

Professional and Research Experience:
Medical Device Toxicological Risk Assessment
Cosmetic Product Safety Report
Mitochondria disease
Renal Toxicology

Awards and Honors:
12th TienTe Lee Biomedical Foundation Outstanding Paper Award
TFDA Cosmetics Safety Assessor Certification
Belgium Vrije Universiteit Brussel, Safety Assessor of Cosmetics in the EU

Selected Publications:
Chang, Y. T., Yang, C. C., Pan, S. Y., Chou, Y. H., Chang, F. C., Lai, C. F., . . . Lin, S. L. (2016). DNA methyltransferase inhibition restores erythropoietin production in fibrotic murine kidneys. J Clin Invest, 126(2), 721-731. doi:10.1172/JCI82819
Kikuchi K., Saigusa D., Kanemitsu Y., Matsumoto Y.,...Yang C.C.,...Abe T. (2019). Gut microbiome-derived phenyl sulfate contributes to albuminuria in diabetic kidney disease. Nat Commun. 2019 Apr 23;10(1):1835. doi: 10.1038/s41467-019-09735-4

3/23 (六) 14:30-15:00
2 樓 29 教室

Toxicological Risk Assessment of Medical Device Constituents: New Strategy and Alternative Method Required for Biological Evaluation of Medical Devices

楊靜欽
Ching-Chin Yang

The evaluation of biocompatibility in medical devices is a critical aspect of pre-market submissions, drawing attention from regulatory bodies such as Taiwan, the U.S. FDA, and the EU MDR, especially concerning the safety considerations of the chemical and toxicological risks associated with device constituents. The ISO 10993-17:2023 standard recently underwent a significant 21-year overhaul, enhancing its content and guidance in the field of biocompatibility assessment. This revision emphasizes a more comprehensive assessment strategy by integrating content from ISO 10993-18 and ISO 10993-1, providing a deeper understanding of the chemical characteristics of medical device constituents. A crucial aspect of the new standard is the consideration of the lifelong cumulative exposure timeline of medical device constituents, providing a toxicological screening limit (TSL) concept to predict constituents with known chemical structures over a specified period that is with or without appreciable harm to health. In addition to considering lifelong cumulative exposure, ISO 10993-17:2023 emphasizes a more specific assessment of Tolerable Intake (TI) and Margin of Safety (MoS). This improvement ensures that the exposure levels of chemical substances to the human body remain within safe limits during the use of medical devices, contributing to a standardized risk assessment process. Aligned with the 3Rs principles (Reduce, Refine, Replace), ISO 10993-17:2023 strongly advocates for the application of In silico methods. These computational approaches, involving computer simulations and virtual techniques, aim to replace or reduce the reliance on animal testing. This not only increases assessment efficiency but also aligns with ethical considerations and animal welfare concerns, reflecting societal demand for a more sustainable and ethical approach to risk assessment. The revisions in ISO 10993-17:2023 signify ongoing progress in the biocompatibility assessment field. With a heightened focus on long-term user risks, adherence to 3Rs principles, and the adoption of In silico methods, the standard offers a more sustainable and ethical approach to risk assessment. This ensures the safety of medical devices while minimizing reliance on unnecessary animal testing, showcasing the industry's commitment to excellence and innovation in biocompatibility assessment.



Speaker/
秦咸靜
Hsian-Jean Chin

國家實驗研究院國家實驗動物中心
National Laboratory Animal Center, NARLabs

Current Position Title:
Director General
National Laboratory Animal Center, NARLabs

Education/Training:
Ph.D. University of Connecticut Health Center,
Department of Genetic and Developmental Biology
D.V.M. National Taiwan University, Department of Veterinary Medicine

Professional and Research Experience:
2020- Director General, National Laboratory Animal Center, NARLabs
2019- Steering Committee member, International Mouse Phenotyping Consortium (IMPC)
2019- Board of Directors, Asian Mouse Mutagenesis Resource Association (AMMRA)

Selected Publications:
1. Chin HJ, Dobbie MS, Gao X, Hennessy JE, Nam KH, Seong JK, Shiroishi T, Takeo T Yoshiki A, Zao J, Wang CKL. Asian Mouse Mutagenesis Resource Association (AMMRA): Mouse genetics and laboratory animal resources in the Asia Pacific. Mammalian Genome 2022, 33, 192-202
2. Birling, MC, Yoshiki A, Adams DJ, Ayabe S, Beaudet AL, Bottomley J, Bradley A, Brown SDM, Bürger A, Bushell W, Chiani F, Chin HJG, Christou S, Codner GF, DeMayo FJ, Dickinson ME, Doe B, Donahue LR, Fray MD, Gambadoro A, Gao X, Gertsenstein M, Gomez-Segura A, Goodwin LO, Heaney JD, Hérault Y, deAngelis MH, Jiang ST, Justice MJ, Kasparek P, King RE, Kühn R, Lee H, Lee YJ, Liu Z, Kent Lloyd KC, Lorenzo I, Mallon AM, McKerlie C., Meehan TF, Newman S, Nutter LMJ, Oh GT, Pavlovic G, Ramirez-Solis R, Rosen B, Ryder EJ, Santos LA, Schick, Seavitt JR, Sedlacek R, Seisenberger C, Seong JK, Skarnes WC, Steel KP, Tamura M, Tocchini-Valentini GP, Wang CKL, Wardle-Jones Ha, Wattenhofer-Donzé M, Wells S, Willis BJ, Wood JA, Wurst W, Xu Y, Teboul L, Murray SA. A resource of targeted mutant mouse lines for 5,061 genes. Nature Genetics, 2021, 53:416-419.

3/23 (六) 15:00-15:30
2 樓 29 教室

Organ-On-Chip, A New Paradigm for Disease Modeling

秦咸靜
Hsian-Jean Chin

Disease modeling is the process that uses specific tools for understanding disease mechanism and developing therapeutic strategies. Useful disease models enable scientists to decode and to conquer human diseases in the lab. Thus far, animal models are the most reliable disease models, especially genetic engineered animals. However, the paradigm shift from animal models to human centered approaches are undergoing. Organ-on-chip (OoC), also known as microphysiological system (MPS), is the emerging technology that integrating organoids, 3D tissue cultures, microfluidics, sensors, and AI to simulates the microphysiological environment of specific organ. Notably, the interconnection of different organs-on-chips had been demonstrated, indicating that the OoC technology has the potential to explore the complexity of human physiology, and consequently being the most promising approaches for human disease modeling in the future.



Speaker/
李宥萱
Yu-Hsuan Lee
中國醫藥大學 藥用化妝品學系
Department of Cosmeceutics, China Medical University

Current Position Title:
Associate Professor, Department of Cosmeceutics, China Medical University, Taiwan.

Education/Training:
Ph.D., Department of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Taiwan
M.S., Department of Environmental and Occupational Health, College of Medicine, National Cheng Kung University, Taiwan

Professional and Research Experience:
2023-present Associate Professor, Department of Cosmeceutics, China Medical University
2019-2023 Assistant Professor, Department of Cosmeceutics, China Medical University

Awards and Honors:
Outstanding Paper Award. Chinese Society of Toxicology 9th National Youth Science and Technology Conference and 2nd Academic Conference on Biotechnology Drug Toxicology and Safety Evaluation Committee, Xiamen, 2023
Best Poster Award. The 37th JACBS, Taiwan. 2023
MOST Research Grants (Rewarding Outstanding Talent), 2021

Selected Publications:
1. W-C Liu, H-W Chiu, C-L Chou, Y-J Chiu and Y-H Lee*. Lactoferrin attenuated urban particulate matter-induced nephrotoxicity by regulating the CSF2/CENPE axis. Environmental Pollution 318, 120871 (2023). (Corresponding author)
2. C-M Zheng, K-C Lu, Y-J Chen, C-Y Li, Y-H Lee* and H-W Chiu*. Matrix metalloproteinase-7 promotes chronic kidney disease progression via the induction of inflammasomes and the suppression of autophagy. Biomedicine & Pharmacotherapy 154, 113565 (2022). (Corresponding author)
3. Z-Y Chen, Y-C Yang, B-J Wang, F-Y Cheng, Y-L Lee, Y-H Lee* and Y-J Wang*. Comparing different surface modifications of zinc oxide nanoparticles in the developmental toxicity of zebrafish embryos and larvae. Ecotoxicology and Environmental Safety 243, 113967 (2022). (Corresponding author)

3/24 (日) 13:00-13:30
2 樓 29 教室

The Emerging Role of Microplastics in The Metabolic System Toxicity

李宥萱
Yu-Hsuan Lee

Plastics exhibit extensive global distribution within the ecosystem. The ramifications of pervasive microplastics (MPs) pollution on organisms remain a subject of controversy. While concrete evidence directly linking a substantial quantity of MPs in the environment to high toxicity is lacking, the annual global production of hundreds of millions of tons of plastic materials underscores the significance of this issue. Currently, there is still a lack of comprehensive data on the human health risks associated with exposure MPs. Therefore, research on the toxicity of MP remains crucial. Our preceding investigation revealed that polystyrene microplastics (PS-MPs), a widely utilized component in commercial products, induced mitochondrial dysfunction, endoplasmic reticulum (ER) stress, inflammation, and autophagy in renal cells. Furthermore, these PS-MPs accumulated in the kidneys of mice, suggesting that prolonged exposure to PS-MPs may pose a potential risk to kidney health. In addition to nephrotoxicity, our research also delves into the hepatotoxic effects of PS-MPs. Our data revealed a notable accumulation of PS-MPs in liver tissues, concomitant with observed excessive reactive oxygen species (ROS) production. Moreover, triglyceride levels in the liver showed a decrease with increasing concentrations of PS-MPs. In order to elucidate the possible mechanisms underlying PS-MPs-induced liver toxicity, we conducted gene set enrichment analysis (GSEA), integrating the PS-MPs group with gene variations associated with healthy mice liver. Examining alterations in diverse gene sets associated with Gene Ontology, our findings unveiled that the gene set exhibiting the highest normalized enrichment score, signifying the most substantial impact, is "STEROID_HORMONE_RECEPTOR_ACTIVITY." We further identified the activation of AMPK-autophagy and inflammasome networks in liver tissues through a comparative analysis of the Ingenuity Pathway Analysis (IPA) database and next-generation sequencing (NGS) data. The aforementioned activation pathway was validated through our experiments, declaring PS-MPs-induced liver toxicity via AMPK-mediated lipid synthesis and inflammatory response regulated by the NLRP3 inflammasome pathway.



Speaker/
莊校奇
Hsiao-Chi Chuang

臺北醫學大學呼吸治療學系
School of Respiratory Therapy, Taipei Medical University

Current Position Title:
Professor in School of Respiratory Therapy, Taipei Medical University

Education/Training:
PhD. Division of Pathophysiology and Repair, School of Biosciences, Cardiff University, UK
MSc. Occupational Medicine and Industrial Hygiene, School of Public Health, National Taiwan University, Taiwan
BSc. Occupational Safety and Health, School of Public Health, China Medical University, Taiwan

Professional and Research Experience:
2023-present Visiting Professor, National Heart & Lung Institute, Imperial College London, UK
2023-present Visiting Professor, Department of Anatomical Pathology, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada, Indonesia

Awards and Honors:
2023 Elected Full Member, Sigma Xi, The Scientific Research Honor Society
2023 Taipei Medical University Research Excellent Award
2021 Taiwan Public Health Conference Best Poster Award
2021 Best Paper of the Year Award on Aerosol and Air Quality Research (AAQR) (SCI; First author; Acute effects of pulmonary exposure to zinc oxide nanoparticles on brain in vivo)

Selected Publications:
1. Laiman, V., Hsiao, T-C., Fang, Y-T., Chen, Y-Y., Lo, Y-C., Lee, K-Y., Chen, T-T., Chen, K-Y., Ho, S-C., Wu, S-M., Chen, J-K., Heriyanto, D.S., Chung, K.F., Ho, K-F., Chuang, K-J., Chang, J-H.*, Chuang, H-C.* (2023) Hippo signaling pathway contributes to air pollution exposure-induced emphysema in ageing rats. Journal of Hazardous Materials 452, p131188.
2. Laiman, V.#, Lo, Y-C.#, Chen, H-C., Yuan, T-H., Hsiao, T-C., Chen, J-K., Chang, C-W., Lin, T-C., Li, S-J., Chen, Y-Y., Heriyanto, D.S., Chung, K.F., Chuang, K-J., Ho, K-F., Chang, J-H.*, Chuang, H-C.* (2022) Effects of antibiotics and metals on lung and intestinal microbiome dysbiosis after sub-chronic lower-level exposure of air pollution in ageing rats. Ecotoxicology and Environmental Safety 246, p114164.

3/24 (日) 13:30-14:00
2 樓 29 教室

Lung and Intestinal Microbiome Dysbiosis In Chronic Obstructive Pulmonary Disease: The Role of Air Pollution

莊校奇
Hsiao-Chi Chuang

Air pollution has been linked with respiratory diseases, particularly chronic obstructive pulmonary disease (COPD). Recognizing that environmental factors like urban air pollution contribute significantly to these diseases, the research focuses on various pollution sources, including transport emissions and industrial activities. Additionally, it examines the environmental impact of antibiotics, which, used widely for treating bacterial infections, enter ecosystems through agricultural practices, pharmaceutical factories, and animal grazing. These antibiotics often bind to soil and sediment, posing a risk of groundwater contamination.

We reveal a correlation between increased concentrations of these pollutants in the lungs following air pollution exposure and a decline in lung function, coupled with an imbalance (dysbiosis) in both the lung and intestinal microbiomes. Specifically, the study demonstrates that air pollution elevates the levels of antibiotics, drugs, and metals in the lungs, leading to decreased lung function and disturbed microbiomes. Moreover, a significant correlation was observed between changes in the lung microbiome and the intestinal microbiome at various taxonomic levels post air pollution exposure.

These findings underscore the intricate interplay between air pollution and the health of respiratory and gut microbiomes, particularly concerning aging and respiratory diseases like COPD. Understanding these complex relationships is crucial for comprehending the progression and management of respiratory diseases in polluted environments, highlighting the need for comprehensive environmental health strategies.



Speaker/
黃雪莉
Shir-Ly Huang

國立陽明交通大學微生物及免疫學研究所
Institute of Microbiology and Immunology,
National Yang Ming Chiao Tung University

Current Position Title:
Professor, Institute of Microbiology & Immunology, NYCU
Professor, Institute of Food Safety and Health Risk Assessment, NYCU

Education/Training:
Ph.D., Department of Microbiology, The University of Iowa, USA

Professional and Research Experience:
1. Taiwan Testing and Quality Assurance Society, Vice President
2. International Committee on Systematics of Prokaryotes (ICSP), Committee Member
3. Taiwan Society for Microbiology, Director
4. Taiwan Society of Microbial Ecology, Standing Director

Awards and Honors:
2023 FutureTech Award
2020 17th National Innovation Award, Excelsior Award, Taiwan
2018 Taiwan Innotech Expo Invention Contest, Silver Medal Award
2013 Taipei International Invention Show & Technomart, Bronze Medal
2011 Taipei International Invention Show & Technomart, Gold Medal
2010、2011 7th & 8th National Innovation Award, Taiwan
2008 Outstanding Research Award, Taiwan Agricultural Chemistry Society

Selected Publications:
1. Shi-Min Zhang, Shir-Ly Huang. 2023. Microbiol Spectr. 11(2): e0355822.
2. Ngoc Tuan Nguyen, ..., Shir-Ly Huang. 2022. Int J Mol Sci. 23(7): 3527.
3. Ha My Ti Phan, ..., Shir-Ly Huang. 2021. Microbiol Resour Announc. 10(1):e01257.
4. Shih-Ping Dai, ..., Shir-Ly Huang, ... 2020. J Neuroinflammation 17(1): 170.
5. Ranjith Kumar Rajendran, ..., Shir-Ly Huang, ... 2020. Chemosphere. 240, 124876.
6. Hung, Kuo-Chan..., Shir-Ly Huang. 2019. Sci Rep. 9(1), 6827.
7. Rashmi Madda, ..., Shir-Ly Huang. 2019. J Microbiol Immunol Infect. 52(5), 816.
8. Rashmi Madda, ..., Shir-Ly Huang. 2018. PeerJ. (6), e4730.
9. Wei-Shan Hsieh, ..., Shir-Ly Huang, ... 2017.. Sci Rep. 7, 8870.
10. Ranjith Kumar Rajendran, Shir-Ly Huang, ... 2017.. Bioresour Technol. 226, 55.
11. Ngoc Nguyen Tuan, ..., Shir-Ly Huang. 2016. Appl Environmen Microbiol. 82(22), 6584.
12. Yi-Wen Lin, ..., Shir-Ly Huang. 2016. Int Biodeterior Biodegrad. 115, 55.
13. Yi-Wen Lin, ..., Shir-Ly Huang. 2016. Int Biodeterior Biodegrad.115, 64.
14. Sikandar I. Mulla, ..., Shir-Ly Huang, ... 2016. Chemosphere. 144, 292.

3/24 (日) 14:00-14:30
2 樓 29 教室

The Multi-Omics Study On The Mechanisms of Bacterial Degradation of Toxic Organic Compounds

黃雪莉
Shir-Ly Huang

烷基苯酚聚氧乙基醇 (Alkylphenol polyethoxylates, APEOn)，是一種非離子界面活性劑，如 Triton X-100® (OPEOn) 及 Triton N-101® (NPEOn)，在農業、工業等方面常被做為乳化劑、分散劑使用。已證實此類界面活性劑及其代謝物 (如辛基酚、壬基酚等 ...) 具內分泌干擾活性，當排放至環境中，不只造成環境的化性改變，同時影響生物的內分泌與生殖系統，因之又稱為內分泌干擾素 (環境荷爾蒙)，在我們發表的回顧文獻中，比較其他國家，台灣人均每日攝取量比其他國家高出數倍，不容忽視。我們分離的革蘭氏陰性菌株 Pseudomonas nitroreducens TX1，已證實可使用 0.5 ~ 20% 的 OPEOn (Octylphenol polyethoxylates) 為唯一碳源快速生長，並於水相、土相環境縮模中測試，可有效減少含量。分析菌株 TX1 分解 OPEOn 之代謝體，證實此菌株能在數日內快速降解 OPEOn。以蛋白質體學分析，當菌株 TX1 生長於 OPEOn 時，並對照以 succinate 為唯一碳源生長，有 85 個蛋白質表現量增加以及 35 個蛋白質表現量降低。後續針對表現量上升的幾個酵素持續探討，其中 dihydrolipoamide dehydrogenase 被純化出來並進一步測試活性，確認該酵素在特定環境中的作用過程會產生自由基，推測可分解 OPEOn 之聚氧乙基醇，用為生長碳源，此為細菌利用自由基分解環境毒物之新穎機制。在基因體學部分，已使用第三代定序建構全基因體圖譜，序列完成度超過 99%，為此菌種的第一個報導，有助後續基礎研究和應用。我們亦使用轉座子突變法，篩選超過 30,000 個突變菌株，最終找到 42 個影響菌株以 OPEOn 為唯一碳源之基因，這些突變基因中，有許多與基因參與細菌結構維持相關機制，如細胞壁、膜蛋白、脂多醣的合成，顯示革蘭氏陰性菌外膜結構完整性可能影響對非離子性界面活性劑之抵抗，目前正驗證數個脂多醣合成基因與界面活性劑抗性的關聯機制。另外，這 42 個突變基因還參與了脂肪酸代謝、中央代謝、趨化性、通道蛋白等途徑，未來將一一針對基因功能，驗證參與分解毒性有機物之機制。轉錄體學部份，菌株 TX1 生長於 OPEOn 時，有許多醇類脫氫酶基因表現量上升，此結果和蛋白體學發現表現量上升的醇類脫氫酶相符。我們利用基因剔除，證實醇類脫氫酶影響生物膜形成以及細菌生長在 stationary pahse 的生長量和存活，顯示此類酵素對環境壓力應變以及碳源缺乏時之角色。此外，我們利用原子力顯微鏡和電子顯微鏡觀察菌株 TX1，其在界面活性劑中的菌體飽和脂肪酸比例上升兩倍，且菌體有變短的現象，亦有胞外結構的變化，有待釐清其分解 / 抗壓角色。對於這些基因 / 酵素 / 代謝物 / 型態的研析，加上多體學方法，將有助於了解細菌分解環境毒性有機物的多面向機制。



Speaker/
陳惠文
Huei-Wen Chen

Graduate Institute of Toxicology,
National Taiwan University College of Medicine

Current Position Title:
Professor, Graduate Institute of Toxicology, NTUCM; Genome and Systems Biology Degree Program, Academia Sinica and NTU

Education/Training:
PhD, Pharmacology, NTUCM

Professional and Research Experience:
Chair and Director, IACUC office, NTUCM (2019-2022)
Director, Graduate Institute of Toxicology, NTUCM (2012-2018)
Director, Laboratory Animal Center, NTUCM (2012-2019)

Awards and Honors:
1. 青杏醫學獎 (台大醫學院 2014)。
2. 李鎮源教授傑出研究獎 (台灣藥理學會 -2014)。
3. 吳大猷先生紀念獎 (國科會 2011)。

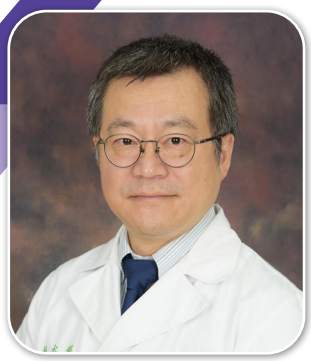
Selected Publications:
1. Chang GC, et al & TALENT Investigators. Low-dose CT screening among never smokers with or without a family history of lung cancer in Taiwan: a prospective cohort study. Lancet Respir Med. 2023, S2213-2600(23)00338-7.
2. Lee PJ, et al., Tumor microenvironment-based screening repurposes drugs targeting cancer stem cells and cancer-associated fibroblasts. Theranostics, 2021,11(19):9667-9686.
3. Su SF, et al., DNA methylome and transcriptome landscapes of cancer-associated fibroblasts reveal a smoking-associated malignancy index. J Clin Invest. 2021:139552.
4. Chen YJ, et al., Proteogenomics of Non-smoking Lung Cancer in East Asia Delineates Molecular Signatures of Pathogenesis and Progression. Cell. 2020, 182(1):226-244.e17.
5. Chen WJ, et al., Cancer-Associated Fibroblasts Regulate the Plasticity of Lung Cancer Stemness via Paracrine Signalling. Nature Comm., 2014, 5:3472.

3/24 (日) 14:30-15:00
2 樓 29 教室

A Precision Environmental Health Approach To Cancer Prevention Strategy

陳惠文
Huei-Wen Chen

The nexus between human health and environmental factors has long been acknowledged, emphasizing the need to learn how to harmonize their survival and the environmental conditions; however, contemporary challenges, including over-exploitation, population expansion, and environmental pollution, have disrupted this delicate balance, leading variations in genetic and epigenetic responses. These alterations manifest as dysregulation in transcriptomic, proteomic, and metabolomic profiles within specific cell types, culminating in the onset of diseases, notably lung cancer. In order to understand the lung cancer caused by the worsening of environmental variability, and to explore the way for prevention and health improving strategy, we applied the framework of “Precision Environmental Health” via using the toxicogenomic approach to understand the potential environmental etiology of the non-smoking lung adenocarcinoma. The focus extends to identify biomarkers indicating exposure and responses to environmental carcinogens, with direct implications for innovative preventive strategies. Concurrently, we establish a precision-oriented "niche-based" cellomic drug screening platform targeting tumor origins. Here, we demonstrate how to develop the repurposes drugs targeting the tumor stemness microenvironment, which might be beneficial for effective anti-cancer therapy and preventing the tumor recurrence. In summary, leveraging omic approach enhances our understanding of the intricate interplay between the environment and our genome in response to internal and external variations. These findings reveal the complex landscape of environmental factors and toxicants on carcinogenesis and might benefit for developing targeted strategies in precision health and medicine.



Speaker/
林水龍
Shuei-Liong Lin

National Taiwan University (NTU)

Current Position Title:
Distinguished Professor, Graduate Institute of Physiology, College of Medicine, NTU

Education/Training:
08/2006~07/2008 Research Fellow, Harvard Medical School, Harvard University
01/2004 PhD, Graduate Institute of Clinical Medicine, College of Medicine, NTU
06/1992 BM, Taipei Medical College

Professional and Research Experience:
08/2019~ Joint Professor, Department of Internal Medicine, College of Medicine, NTU
08/2016~ Joint Professor, Graduate Institute of Clinical Medicine, College of Medicine, NTU
08/2015~ Professor, Graduate Institute of Physiology, College of Medicine, NTU
07/1999~ Visiting Staff, Renal Division, Department of Internal Medicine, NTU Hospital

Awards and Honors:
2023 33th Wang Ming-Ning Award, Wang Ming-Ning Memorial Foundation
2022 Outstanding Research Award, National Science and Technology Council
2022 Outstanding Research Award, NTU Hospital
2019 Outstanding Research Award, Prof. WY Chen Fund, Taiwan Society of Nephrology
2016 Outstanding Research Award, Ministry of Science and Technology
2011 Chin-Hsin Medical Award, College of Medicine, NTU

Selected Publications:
1. Chou YH, Pan SY, Shih HM, Lin SL. Update of pericytes function and their roles in kidney diseases. J Formos Med Assoc 2023 Aug 14: S0929-6646(23)00297-8. doi: 10.1016/j.jfma.2023.08.002.
2. Chang FC, Liu CH, Luo AJ, Huang TTM., Tsai MH, Chen YJ, Lai CF, Chiang CK, Lin TH, Chiang WC, Chen YM, Chu TS, Lin SL. Angiopoietin-2 inhibition attenuates kidney fibrosis through inhibiting CCL2 expression and cell apoptosis of endothelial cells. Kidney Int 2022;102(4):780-797.

3/23 (六) 14:30-17:00
1 樓　第二教室

Physiology and Pathophysiology of Kidney Pericytes

林水龍
Shuei-Liong Lin

Pericytes are interstitial mesenchymal cells found in many major organs. In the kidney, microvascular pericytes are defined anatomically as extensively branched collagen-producing cells in close contact with endothelial cells. Although many molecular markers have been proposed, none of them can identify the pericytes with satisfactory specificity or sensitivity. The roles of microvascular pericytes in kidneys were poorly understood in the past. Recently, by using genetic lineage tracing to label collagen-producing cells or mesenchymal cells, the elusive characteristics of the pericytes are illuminated. In the healthy kidney, pericytes are found to take part in the maintenance of microvascular stability. Detachment of the pericytes from microvasculature and loss of close contact with endothelial cells are observed upon kidney injury. Kidney pericytes are shown to be the major source of scar-forming myofibroblasts in progressive kidney disease. Targeting the crosstalk between pericytes and neighboring endothelial cells or tubular epithelial cells may inhibit the pericyte-myofibroblast transition, prevent peritubular capillary rarefaction, and attenuate kidney fibrosis. In addition, kidney pericytes produce erythropoietin in healthy kidneys by sensing the change of oxygenation and hemoglobin concentration. However, the ability of erythropoietin production decreases in pericytes-derived myofibroblasts in chronic kidney disease, leading to renal anemia. Recent advances on epigenetics create a new field to study erythropoietin gene expression at chromatin level. Demethylating agent has shown the restoration of erythropoietin expression as well as downregulation of α smooth muscle actin in myofibroblasts. Through this talk I would like to share the knowledge in the physiology and pathophysiology of kidney pericytes.



Speaker/
湯銘哲
Ming-Jer Tang

Department of Physiology, NCKU Medical College

Current Position Title:
Distinguished Professor, Department of Physiology, Medical College
Director of International Center for Wound Repair and Regeneration (iWRR)
National Cheng Kung University, Tainan, Taiwan

Education/Training:
1973-1980 Taipei Medical College, Taipei, Taiwan. M.D.
1983-1987 University of Michigan, Ann Arbor, Michigan. Ph.D. (Physiology)
1987-1988 Postdoctoral fellow, Department of Int. Medicine. University of Michigan Medical Center, Ann Arbor, Michigan.
1988-1990 Postdoctoral fellow, Department of Physiology and Biophysics. University of Southern California Medical School, L.A. California.

Professional and Research Experience:
1990-1996 Associate Professor, Department of Physiology, NCKU Medical College
1996- Professor, Department of Physiology, NCKU Medical College
2001-2007 Executive Vice Dean, National Cheng Kung University Medical College
2002- Distinguished Professor, Department of Physiology, National Cheng Kung University Medical College
2007-2011 Vice President of Academic Affairs, National Cheng Kung University
2013-2016 President, Tunghai University, Taichung
2016- Director, International Center for Wound Repair and Regeneration (iWRR) National Cheng Kung University (Funded by MOE and MOST)

Awards and Honors:
1. 112 年 李國鼎榮譽學者 國立成功大學
2. 111 年 師鐸獎
2. 111 年 國立臺南第一高級中學第十五屆 (百年校慶) 校友傑出成就獎
3. 110 年 大學創新與大學社會責任教學特優 國立成功大學
4. 92-94 年 國科會傑出研究獎
5. 第 15 屆王民寧獎「醫藥研究成果對國民健康傑出貢獻獎

3/23 (六) 14:30-17:00
1 樓　第二教室

Mechanobiology of Renal Tubule Morphogenesis

郭承翔，湯銘哲
Cheng Hsiang Kuo and Ming Jer Tang

The intricate interplay between biomechanical and biochemical pathways in modulating morphogenesis has been an interesting research topic. How biomechanical force regulates epithelial cell tubulogenesis remains poorly understood. Here we established a model of tubulogenesis by culturing renal proximal tubular epithelial cells on the collagen gel with manipulation of contractile force. In our model, epithelial cells were dynamically self-organized into tubule-like structures by augmentation of cell protrusions and cell-cell association. Reduction and asymmetric distribution of phosphorylated myosin light chain 2, referring to the actomyosin contractility, in cells grown on soft matrix preceded tube connection. Notably, reducing matrix stiffness via sonication of collagen fibrils and inhibiting actomyosin contractility with blebbistatin promoted tubulogenesis, whereas inhibition of cytoskeleton polymerization suppressed it. The CXC chemokine ligand 1 (CXCL1) expression was found to be transcriptionally upregulated in cells undergoing tubulogenesis. Moreover, inhibiting actomyosin contractility facilitated CXCL1 polarization and cell protrusions preceding tube formation, while inhibiting the CXCL1-CXC receptor 1 pathway hindered cell protrusions and tubulogenesis. The asymmetry of mechanical properties and cell-collagen fibril interaction patterns at cell protrusions and along the tube structure confirmed the association of anisotropic contraction and the tube formation process. Furthermore, suppressing mechanosensing machinery CD29 resulted in the reduction of CXCL1 expression and collagen remodeling and the impairment of tubulogenesis. In summary, breaking the symmetry of cell contractility on a soft collagen gel promotes CXCL1 polarization at cell protrusions which in turn facilitates cell-cell association and thus tubule connection.



Speaker/
邱文泰
Wen-Tai Chiu

Department of Physiology, NCKU Medical College

Current Position Title:
Professor & Department Chair

Education/Training:
1993-1997 B.S., Department of Life Sciences, National Cheng Kung University, Taiwan
1997-1999 M.S., Department of Physiology, National Cheng Kung University, Taiwan
2002-2007 Ph.D., Institute of Basic Medical Sciences, National Cheng Kung University, Taiwan

Professional and Research Experience:
08/2021-present Department Chair, Department of Biomedical Engineering, NCKU
08/2020-present Professor, Department of Biomedical Engineering, NCKU
08/2020-07/2021 Chief/Office of General Affairs, Innovation headquarters, NCKU
02/2016-07/2020 Associate Professor, Department of Biomedical Engineering, NCKU
08/2012-01/2016 Assistant Professor, Department of Biomedical Engineering, NCKU

Awards and Honors:
2023/2019/2017 Outstanding Teaching Award, National Cheng Kung University
2016 Award for Excellence in Tutoring, Department of Biomedical Engineering, NCKU
2015 Outstanding Research Award, College of Engineering, NCKU
2015 Raising Star of Young Faculty, College of Engineering, NCKU

Selected Publications:
1. Lai, Y.S., Chan, T.W., Nguyen, T.M.H., Lin, T.C., Chao, Y.Y., Wang, C.Y., Hung, L.Y., Tsai, S.J. and Chiu, W.T.* (2023 Dec) Store-operated calcium entry inhibits primary ciliogenesis via the activation of Aurora A. FEBS Journal Online ahead of print.
2. Chang, H.A., Ou Yang, R.Z., Su, J.M., Nguyen, T.M.H., Sung, J.M., Tang, M.J. and Chiu, W.T.* (2023 Oct) YAP nuclear translocation induced by HIF-1α prevents DNA damage under hypoxic conditions. Cell Death Discovery 9(1):385.
3. Lin, Y.S., Huang, W.H., Hsu, K.F., Tang, M.J.* and Chiu, W.T.* (2023 Sep) Reversion of chemoresistance by endocannabinoid-induced ER stress and autophagy activation in ovarian cancer. American Journal of Cancer Research 13(9):4163-4178.

3/23 (六) 14:30-17:00
1 樓　第二教室

HIF-1α-Induced YAP Nuclear Entry Avoids DNA Damage and Apoptosis under Hypoxia in Renal Epithelial Cells

邱文泰
Wen-Tai Chiu

Inadequate recovery from acute kidney injury (AKI) poses a significant risk of progressing to fibrosis and chronic kidney disease, with limited effective therapies available. Hypoxia serves as a primary trigger for ischemia-reperfusion injury (IRI)-induced AKI, making it crucial to investigate the involvement of hypoxia-inducible factor-1α (HIF-1α) in kidney repair. Yes-associated protein (YAP), a key transcription factor in the Hippo pathway, regulates cell proliferation, organ regeneration, and apoptosis inhibition. YAP's subcellular localization, balancing between the nucleus and cytoplasm, is pivotal for its transcriptional activity. Typically, high cell density inhibits YAP activity, retaining it in the cytoplasm. Surprisingly, our observations reveal YAP nuclear translocation under hypoxic conditions at elevated cell density, indicating that the nucleocytoplasmic shuttling of YAP, modulated by hypoxia, influences its impact on IRI. Our objective is to unravel the mechanism behind hypoxia-induced nuclear translocation of YAP and its implications. Utilizing the hypoxia-mimetic agent CoCl2, we simulated a hypoxia-like environment and conducted immunoprecipitation and proximity ligation assay to validate protein interactions. Our findings demonstrate that HIF-1α actively facilitates the nuclear translocation of YAP at high cell density under hypoxic conditions. Remarkably, YAP's nuclear translocation provides cellular protection against DNA damage and apoptosis in hypoxic settings. Notably, this study is the first to identify that the nuclear entry of HIF-1α alone is sufficient to induce YAP nuclear translocation under hypoxic conditions. These discoveries suggest that targeting YAP activation could be a viable strategy to enhance cell recovery during hypoxic insults, offering potential avenues for the treatment of renal diseases associated with hypoxia, ischemia, and fibrosis.



Speaker/
楊智宇
Chih-Yu Yang

Institute of Clinical Medicine, National Yang Ming Chiao Tung University School of Medicine
Division of Nephrology, Taipei Veterans General Hospital

Current Position Title:
Professor and Attending Physician

Education/Training:
M.D., Faculty of Medicine, National Yang-Ming University School of Medicine
Ph.D., Institute of Clinical Medicine, National Yang-Ming University School of Medicine
Research Fellow, Institute of Engineering in Medicine, UCSD, San Diego, USA

Professional and Research Experience:
Professor, Associate Professor, Assistant Professor, and Lecturer, National Yang-Ming University School of Medicine, Taipei, Taiwan
Chief, Division of Clinical Toxicology, Department of Medicine, Taipei Veterans General Hospital, Taipei, Taiwan

Awards and Honors:
2023: Future Tech Award, National Science and Technology Council, Taiwan
2022: The 19th National Innovation Award, Taiwan
2021: The 18th National Innovation Award, Taiwan
2021: Best Research Article Award (Ranking the 1st place), The 5th Congress of Asian Pacific Society of Dialysis Access (APSDA 2021)
2018: The 15th National Innovation Award, Taiwan
2017: Future Tech Breakthrough Award, Ministry of Science and Technology, Taiwan

Selected Publications:
1.Lin RA, Yang CY*, et al. Circulating Osteocalcin Fractions are Associated with Vascular Calcification and Mortality in Chronic Hemodialysis Patients. Calcif Tissue Int. 2023 Oct;113(4):416-425.
2.Lee DY, Yang CY*, et al. Systemic Vascular Resistance Predicts High Output Cardiac Failure in Patients with High-Flow Arteriovenous Fistula. ESC Heart Fail. 2023 Oct 26.
3.Yang CY*, et al. Weight-Based Assessment of Access Flow Threshold to Predict Arteriovenous Fistula Functional Patency. Kidney Int Rep. 2022;7(3):507-515.
4.Li MC, Yang CY*, et al. Functioning Tailor-Made 3D-Printed Vascular Graft for Hemodialysis. J Vasc Access. 2022 Jun 30.
5.Tsai HC, Yang CY*, et al. Pentraxin 3 Predicts Arteriovenous Fistula Functional Patency Loss and Mortality in Chronic Hemodialysis Patients. Am J Nephrol. 2022;53(2-3):148-156.
6.Yang CY*, et al. Mechanical and Chemical Cues Synergistically Promote Human Venous Smooth Muscle Cell Osteogenesis through Integrin β1-ERK1/2 Signaling: FASEB J. 2021;35(12):e22042.

3/23 (六) 14:30-17:00
1 樓　第二教室

Hemodialysis Vascular Access Complications: Causes, Detection, and Prediction

楊智宇
Chih-Yu Yang

End-stage kidney disease is a prevalent health issue in Taiwan. Currently, the population receiving dialysis therapy is around ninety thousand, with approximately twelve thousand new patients requiring dialysis each year. Hemodialysis vascular access, often considered the lifeline of hemodialysis patients, is created by vascular surgeons through anastomosis of an upper limb artery and a superficial vein, forming the so-called "hemodialysis vascular access." This vascular access provides sufficient blood flow for high-quality hemodialysis therapy. Vascular access dysfunction significantly impacts patients' health.

Our research team utilized interdisciplinary research approaches, including microfluidic shearing experiments, animal models, and vascular imaging of patients for fluid dynamics analysis. We also employed access flow surveillance and analysis, developed an ambulatory optical sensor for access flow detection, and used machine learning algorithms to study vascular access complications. These methods were employed to investigate the causes of vascular access complications and to detect and predict them effectively.

This presentation will cover our team's experience in scientific research, combining precision medicine and translational research to decipher molecular mechanisms, improve clinical diagnostic accuracy, and promote the vascular health of hemodialysis patients.



Speaker/
陳嘉君
Chia-Chun Chen

Chang Gung University, Molecular Medicine Research Center

Current Position Title:
Associate Research Fellow
microRNA Platform Technical Director

Education/Training:
National Chiao Tung University, Biological Science and Technology, Bachelor
Chang Gung University, Biomedical Sciences, PhD (Major: Microbiology)

Professional and Research Experience:
Chang Gung University, Associate Research Fellow, 2022/08- Present
Chang Gung University, Assistant Research Fellow, 2014/09-2022/07
Chang Gung University, Molecular Medicine Research Center, microRNA Platform Technical Director, 2013/12- Present

Awards and Honors:
Bronze Medal Award presented to the patent “Method for determining the risk of developing acute kidney injury in a human subject with acute myocardial infarction” from 2019 Taiwan Innotech Expo Invention Contest

Selected Publications:
Chen CC, Chu HY, Chang IY, Chang YS, Weng KP, Chang LS, et al. Symptom-correlated MiRNA signature as a potential biomarker for Kawasaki disease. Biomed J 2023:100684.
Chen CC, Chang PY, Chang YS, You JF, Chan EC, Chen JS, et al. MicroRNA-based signature for diagnosis and prognosis of colorectal cancer using residuum of fecal immunochemical test. Biomed J 2023;46(1):144-53.

3/23 (六) 14:30-17:00
1 樓　第二教室

Global MicroRNA Profiling of Human Urinary Extracellular Vesicle Reveals Disease Biomarkers for Predicting Non-Recovery of Acute Kidney Injury after Cardiac Surgery

陳嘉君
Chia-Chun Chen

Through being important modulators in cell-to-cell communication, extracellular vesicles (EVs) have emerged as a source of biomarkers for predicting disease progression of Acute kidney injury (AKI). In this study, we used small RNA sequencing to profile miRNA expression in urinary EVs from 34 patients receiving cardiac surgery. By a series of exclusive criteria based on expressed abundance, 29 miRNAs with significant alterations between patients with or without AKI were identified and then verified in the other independent cohort of 85 urine samples using multiplex RT-qPCR. Among the 6 validated miRNAs, miR-21-5p, the most consistently reported miRNA with AKI association, had the most dramatic increase in the AKI patients and especially in the non-recovered AKI patients (2.93-fold and 5.75-fold, respectively). To try to provide additional diagnostic information, the ratio analysis was used and five miRNA ratios with significant upregulation in both AKI/non-AKI and non-recovered AKI/recovered AKI comparisons were identified. To facilitate clinical practice with minimum targets, we found combining the three miRNA ratios (miR-21-5p/miR-204-5p, miR-21-5p/miR-10b-5p, miR-21-5p/miR-125a-5p) using a logistic regression model could improve the area under the curve value (AUC) to 0.758 for and obtained a sensitivity of 90% for predicting AKI. Noticeably, this model had the highest discriminating power for non-recovered AKI (AUC = 0.875) and showed high sensitivity and specificity of 72.7% and 97.2, respectively. Furthermore, bioinformatic analysis depicted that predicted targets of these miRNAs are involved in the HIF-1 signaling pathway, the key regulation in ischemia-reperfusion processes. In conclusions, this pathogenic miRNA panel can potentially early identify the most at-risk group of postoperative AKI to receive prompt examination and intervention.



Speaker/
葉儀君
Yi-Chun Yeh

Department of Physiology and Pharmacology, Chang Gung University

Current Position Title:
Assistant Professor

Education/Training:
1999.09-2003.07 B.S., Biology
Department of Biology, Tunghai University
2003.09-2005.06 M.S., Physiology
Department of Physiology, Medical College, National Cheng Kung University
2005.09-2010.12 Ph.D., Basic Medical Science
Institute of Basic Medical Science, National Cheng Kung University

Professional and Research Experience:
2018.07-2022.01 Research Assistant Professor
International Center of Wound Repair and Regeneration, National Cheng-Kung University
2012.07-2018.06 Postdoctoral Researcher
Department of Physiology, Anatomy, and Genomics, Oxford University, UK

Selected Publications:
1. Dulloo I, Atakpa-Adaju P, Yeh YC, Levet C, Muliyil S, Lu F, Taylor CW, Freeman M. iRhom pseudoproteases regulate ER stress-induced cell death through IP3 receptors and BCL-2. Nat. Commun., 2022 Mar 13(1):1257.
2. Grieve AG, Yeh YC, Zarcone L, Breuning J, Johnson N, Strisovsky K, Brown MH, Parekh AB, Freeman M. Conformational surveillance of Orai1 by a rhomboid intramembrane protease prevents inappropriate CRAC channel activation. Mol Cell., 2021 Dec; 81, 4784-4798.
3. Yeh YC, Lin YP, Kramer H and Parekh AB. Single nucleotide polymorphisms in Orai1 associated with atopic dermatitis inhibit protein turnover, decrease calcium entry and disrupt calcium-dependent gene expression. Hum Mol Genet., 2019 Jul; 21;29(11): 1808-1823, 2019.
4. Yeh YC, Lin HH, and Tang MJ. Dichotomy of DDR1 functions in epithelial cells. Biochem Biophys Acta Mol Cell Res., 2019 Nov; 1886(11): 118473.
-Review paper.

3/24 (日) 14:30-16:30
1 樓　第二教室

Meet The “Point Of No Return” of Renal Fibrosis- Can We Conquer It?

葉儀君
Yi-Chun Yeh

Chronic kidney disease (CKD) is a global health issue and a prodigious burden of public health expenditure in an aging society. Infectious diseases, diabetes, hypertension, and cardiorenal syndrome can lead to CKD, and diabetic kidney disease (DKD) is known as the leading cause of CKD and end-stage of renal disease (ESRD). Renal fibrosis in glomerular and tubulointerstitial compartments is associated with the decreased renal function in diabetic and nondiabetic nephropathy. Reanl tubulointerstitial fibrosis is a common and inevitable consequence of CKD and an indispensable factor leading to ESRD. Identifying salient features within the time frame of renal fibrosis is critical to search for key factors that contribute to its reversible or irreversible status. Current animal model of renal fibrosis provide a view of disease progression but not of the recovery phase, where a number of clues may suggest possible reversible mechanisms of renal fibrosis. Here, we established a reversed unilateral ureteral obstruction (RUUO) animal model that provides a temporal sequence of renal fibrosis and intuitive surgery to reduce the pathological damage without the interference of other drugs. In addition, the RUUO animal model is consistent with the clinical situation of acute and chronic kidney diseases, with further reversible or irreversible consequences, and can be used for translational study or drug screening. Myofibroblasts, characterized by extracellular matrix (ECM) deposition and remodeling, are considered to be major players in tubulointerstitial fibrosis, and activation of resident fibroblasts or trans-differentiation of pericytes are the key sources of myofibroblasts. In the RUUO animal model, we found that increased mechanical signaling through collagen deposition and cross-linking through discodin domain receptor 2 (DDR2) signaling is not only a consequence of but also a determinant in disease progression. Blockade of DDR2 prevents the irreversible consequences of renal fibrosis, suggesting that DDR2 is a potential therapeutic target.



Speaker/
楊豐名
Feng-Ming Yang

Taipei Medical University

Current Position Title:
Associate Professor

Education/Training:
Ph. D. degree - Graduate Institute of Medical Sciences, National Taiwan University College of Medicine, Taiwan. (Sep. 2004 ~ Nov. 2010)
Postdoctoral fellow- The University of Texas MD Anderson cancer center, Houston, Texas. (Sep. 2012 ~ Aug. 2016)/ The University of Missouri, Columbia, Missouri. (Sep. 2016 ~ 2019)

Professional and Research Experience:
Protein kinases and phosphatases in innate immune cell signaling
Inflammation-induced lung diseases (ALI and Asthma)
Therapeutic agents targeting the regulation of innate immunity
SUMO modification in molecular endocrinology

Awards and Honors:
Scholarship Award, NF-KappaB and MAP kinase Signaling in Inflammation Conference, Keystone Symposia. (Mar, 2016)

Selected Publications:
1. Loss of PP4 contributes to diesel exhaust particles-induced epithelial barrier integrity disruption and alarmins release. Allergy. 2023 Jun;78(6):1670-1673
2. Home Dust Mites Promote MUC5AC Hyper-Expression by Modulating the sNASP/TRAF6 Axis in the Airway Epithelium. Int J Mol Sci. 2022 Aug 20;23(16):9405
3. PEP-sNASP Peptide Alleviates LPS-Induced Acute Lung Injury Through the TLR4/TRAF6 Axis. Front Med (Lausanne). 2022 Mar 21;9:832713
4. Regulation of TLR4 signaling through the TRAF6/sNASP axis by reversible phosphorylation mediated by CK2 and PP4. PNAS. 2021 Nov 23;118(47)
5. sNASP inhibit TLR Signaling to Regulates Immune Response in Sepsis. J Clin Invest. 2018 Jun 1;128(6):2459-2472

3/24 (日) 14:30-16:30
1 樓　第二教室

Defective Innate Immune Signaling in Pathogenesis of Severe Asthma

楊豐名
Feng-Ming Yang

Allergic asthma is a common chronic respiratory disease with clinical symptoms of wheezing, shortness of breath, and chest tightness, and it is characterized by chronic airway inflammation, airflow obstruction, airway hyper-responsiveness (AHR), and mucus hypersecretion. Airway epithelial cells (AECs) represent the very first line of defense against the penetration of environmental agents, such as pollutants, into the human body. Increasing evidence has revealed that exposure to diesel exhaust particles (DEPs), which are major contributors to near-road traffic-related air pollution, is associated with exacerbation of allergic asthma. Thus, allergic asthma is also characterized by aberrations in the epithelial barrier and aggravated type 2 helper T (Th2) cell responses which are attributed to the dysregulated release of epithelium-derived alarmins. Here, we aimed to explore the new insight into the role of airway epithelium in pathogenesis of severe asthma, especially in allergic asthma. We demonstrated that genetic defects or inefficiency plays a critical role in maintaining the baseline epithelial barrier integrity and is implicated in airway inflammation. The clinical significance of our study is that it highlights the functional role for genetic risk that links exposure to environmental pollutants and exacerbation of asthma. Mucin 5AC (MUC5AC) is one of the major mucous gels that coat the airway's apical surfaces and is primarily produced by epithelial goblet cells within the tracheal and bronchial epithelia. We also demonstrated the mechanisms of Toll-like receptors (TLR) involved in mucus hypersecretion and airway inflammation through the engagement of innate immunity. Finally, our findings could lead to the development of novel regulators to attenuate genetic risks to ameliorate harmful allergic immune responses.



Speaker/
顏怡君
Yi-Chun Yen

Tunghai University

Current Position Title:
Assistant Professor

Education/Training:
1997-2001 BSc in Psychology, National Taiwan University, Taiwan
2001-2004 MSc in Psychology, National Taiwan University, Taiwan
2007-2012 PhD in Biology (Neurobiology), Ludwig Maximilian University of Munich, Germany

Professional and Research Experience:
Protein kinases and phosphatases in innate immune cell signaling
Inflammation-induced lung diseases (ALI and Asthma)
Therapeutic agents targeting the regulation of innate immunity
SUMO modification in molecular endocrinology

Awards and Honors:
Scholarship Award, NF-KappaB and MAP kinase Signaling in Inflammation Conference, Keystone Symposia. (Mar, 2016)

Selected Publications:
1. Loss of PP4 contributes to diesel exhaust particles-induced epithelial barrier integrity disruption and alarmins release. Allergy. 2023 Jun;78(6):1670-1673
2. Home Dust Mites Promote MUC5AC Hyper-Expression by Modulating the sNASP/TRAF6 Axis in the Airway Epithelium. Int J Mol Sci. 2022 Aug 20;23(16):9405
3. PEP-sNASP Peptide Alleviates LPS-Induced Acute Lung Injury Through the TLR4/TRAF6 Axis. Front Med (Lausanne). 2022 Mar 21;9:832713
4. Regulation of TLR4 signaling through the TRAF6/sNASP axis by reversible phosphorylation mediated by CK2 and PP4. PNAS. 2021 Nov 23;118(47)
5. sNASP inhibit TLR Signaling to Regulates Immune Response in Sepsis. J Clin Invest. 2018 Jun 1;128(6):2459-2472

3/24 (日) 14:30-16:30
1 樓　第二教室

Sleep Deprivation Impairs Working Memory by Regulation of Anti-Aging Protein Klotho

顏怡君
Yi-Chun Yen

Sleep is an important physiological activity for proper brain function. Both acute and chronic sleep deprivation induce cognitive deficits, as well as oxidative stress. Klotho is an anti-aging protein with cognition-enhancing and antioxidative properties. Evidence has shown that Klotho improves cognition through enhancing long-term potentiation and enriching the synaptic NR2B receptors. Although Klotho is viewed as a potential treatment for cognitive disorders and neurodegeneration, whether it is able to alleviate the detrimental effects induced by sleep deprivation remains elusive. Recent human study has revealed reduced levels of Klotho in obstructive sleep apnea, suggesting a link between Klotho and sleep disturbance. Therefore, the objective of this study is to explore whether sleep deprivation causes cognitive impairment by regulating Klotho protein. Male C57BL/6 mice were randomly assigned to control and sleep deprivation (SD) groups after evaluating behavior by using open field test. Mice of SD group were sleep deprived by automated sleep deprivation system for 48 hours. The data show that 48-hr sleep deprivation impaired working memory and reduced Klotho expression in the medial prefrontal cortex, however, without changes in synaptic NR2B levels and neuronal oxidative stress. Taken together, acute sleep deprivation induces profound deficits of working memory with down-regulation of Klotho. The present results determine that Klotho is involved in SD-induced cognitive deficits and implicate that Klotho may be a novel therapeutic strategy for alleviating averse consequences of SD.

Key words: NR2B receptors, oxidative stress, medial prefrontal cortex



Speaker/
徐經倫
Ching-Lung Hsu

Institute of Biomedical Sciences, Academia Sinica
中央研究院生物醫學科學研究所

Current Position Title:
Assistant Research Fellow, Institute of Biomedical Sciences, Academia Sinica
Core Member, Neuroscience Program of Academia Sinica (NPAS)
Adjunct Assistant Professor, Department of Life Science, National Taiwan University
Adjunct Assistant Professor, Graduate Institute of Life Sciences, National Defense Medical Center

Education/Training:
National Taiwan University; B.Sc., Major, Zoology (Life Science); Minor, Electric Engineering
National Taiwan University; Ph.D. (Honors), Zoology, Division of Neurobiology

Professional and Research Experience:
Member of the Board of Directors (理事), Taiwanese Society for Computational Neuroscience
Research Scientist; Janelia Research Campus, Howard Hughes Medical Institute
Postdoctoral Associate; Janelia Research Campus, Howard Hughes Medical Institute

Awards and Honors:
Young Scholar Innovation Award 年輕學者創新獎
(Foundation for The Advancement of Outstanding Scholarship, Taiwan; 傑出人才發展基金會)
Career Development Award (前瞻計畫)
(Academia Sinica)
2030 Cross-Generation Young Scholars Program–Outstanding Young Scholar (優青) (National Science and Technology Council)

Selected Publications:
Zhao X*, Hsu CL*, Spruston N. (2022). Rapid synaptic plasticity contributes to a learned conjunctive code of position and choice-related information in the hippocampus. Neuron, 110(1): 96-108.e4; DOI: 10.1016/j.neuron.2021.10.003.#
Featured in Neuron by Michael Brecht "A Cellular Stapler for Memories"
Hsu CL*, Zhao X, Milstein AD, Spruston N. (2018). Persistent sodium current mediates the steep voltage dependence of spatial coding in hippocampal pyramidal neurons. Neuron, 99(1): 147-162.#

3/24 (日) 14:30-16:30
1 樓　第二教室

A Multiscale Analytical Framework for Synaptic Plasticity and Single-Neuron Computation Basis of A Hippocampal Memory Circuit

徐經倫
Ching-Lung Hsu

The conception of computation as a scaffold for mechanistic understanding of complex cognition was started on in the mid-20th century. Finding the cellular basis for neuro-computations proves difficult because, conventionally, neither bottom-up (neurophysiology) nor top-down (behavior, psychophysics, cognitive science) approaches alone could easily address the link between neuronal and computational properties.

The hippocampus contains animal-position-dependent-firing neurons (place cells), and is a structure that forms episodic memory, a key function underlying rapid learning and intelligent, goal-directed behavior. Furthermore, a neuron-computation link was brought together by a recent finding that Ca2+-dependent depolarizations, likely dendritically initiated, in a single pyramidal cell immediately converted it from a non-place to a place cell in behaving mice. For the said challenge, the multiscale gap may be bridged by synaptic plasticity being triggered, a focus of decades in cellular neurophysiology, and the computational functions driving memory-dependent navigation.

I will discuss our applying a multiscale analytical framework to delineate the neuron computational basis of hippocampal spatial memory. Within previous and current efforts, mouse virtual reality (VR), a behavioral environment with programmable sensorimotor information, offered a means to define putative synaptic plasticity rules in the context of place-cell emergence. We established a highly controlled ex-vivo model in acute brain slices for such plasticity, and used patch-clamp recording and mathematical modeling to break down the computing substrates of place-cell plasticity into (at least) three levels: (1) an experimentally determined, single-parameter descriptor for the synaptic trace of input-circuit activities across a range of physiological patterns; (2) an experimentally and theoretically driven biophysical foundation of a dendritic “instructive” signal (under the notion of reinforcement learning), namely Ca2+ plateau potential; (3) a numerically constrained set of learning algorithms based on multiple input pathways and postsynaptic integrative properties. Finally, this ongoing work will motivate a high-speed subcellular opto-physiological resolution of single-neuron synaptic integration. There is much to be done, but we hope these attempts stimulate new empirical framework for understanding the cellular nature of dynamic cognitive processes.



Speaker/
邱士華
Shih-Hwa Chiou

National Yang Ming Chiao Tung University

Current Position Title:
•director, Department of Medical Research, Taipei Veterans General Hospital
•Distinguished Chair Professor, The Institute of Pharmacology. The Institute of Clinical Medicine & Gemonic Center,National Yang Ming Chiao Tung University, Taiwan

Education/Training:
•Institute of Clinical Medicine, National Yang Yang-Ming University PhD
•School of Medicine, National Defense Medical College MD

Professional and Research Experience:
•2016 - Distinguished Professor, School of Medicine, National Yang-Ming University
•2007 Visiting Researcher, Molecular Biochemistry, The Scripps Research Institute, CA, USA
•2006 - Associate professor, Institute of Clinical Medicine & Medical School, National Yang-Ming University
•2005 - Attending physician, Department of Medical Research & Education, TVGH
•2002 Post-Doc, City of Hope, Bone Marrow Transplant/Stem Cell Lab, CA, US
•2000-2002 Attending physician, Department of Ophthalmology, TVGH

Awards and Honors:
•2023: Taipei Biotech Interdisciplinary Excellence Award
•2023: National Biotechnology and Medical Industry Promotion Office, "20th National Innovation Award," Academic Research Innovation Award
•2022: National Biotechnology and Medical Industry Promotion Office, "19th National Innovation Award," Medical Innovation Award Continuation Award
•2022: "32nd Wang Ming-Ning Award" for Outstanding Contributions to Clinical Medical Research in Medicine and Technology Development, National Health, Society, and Industry (Clinical Medicine Category)
•2021: Taipei Biotech Interdisciplinary Excellence Award
•2021: National Biotechnology and Medical Industry Promotion Office, "18th National Innovation Award," Medical Innovation Award Continuation Award
•2021: 65th Ministry of Education Academic Award (Biological and Medical Sciences)

Selected Publications:
•Oncogenic circRNA C190 Promotes Non-Small Cell Lung Cancer via Modulation of the EGFR/ERK Pathway.Ishola AA, Chien CS, Yang YP, Chien Y, Yarmishyn AA, Tsai PH, Chen JC, Hsu PK, Luo YH, Chen YM, Liang KH, Lan YT, Huo TI, Ma HI, Chen MT, Wang ML, Chiou SH.Cancer Res. 2022 Jan 1;82(1):75-89. (IF=12.701;RANK=20/310;ONCOLOGY)
•METTL3-dependent N6-methyladenosine RNA Modification Mediates the Atherogenic Inflammatory Cascades in Vascular Endothelium. Chien CS, Li Julie YS, YC, Wang ML, Aliaksandr A Yarmishyn, Tsai PH, Juan CC, Phu Neugyn, Cheng HM, Huo TI, Chiou SH *, Chien Shu *.Proc. Natl. Acad. Sci. USA 2021 118 (7) e2025070118 (IF= 9.412; RANK=8/71;Multidisciplinary Sciences)
•Supramolecular Nanosubstrate-Mediated Delivery System Enables CRISPR/Cas9 Knockin of Hemoglobin Beta Gene for Hemoglobinopathies. Yang P, Chou SJ, Li J, Hui W, Liu W, Sun N, Zhang RY, Zhu Y, Tsai ML, Lai HI, Smalley M, Zhang X, Chen J, Romero Z, Liu D, Ke Z, Zou C, Lee CF, Jonas SJ, Ban Q, Weiss PS*, Kohn DB*, Chen K*, Chiou SH*, Tseng HR*.Science Advances 2020 Oct 23;6(43):eabb7107 (IF=13.116;RANK=4/71; MULTIDISCIPLINARY SCIENCES)
•Dual Supramolecular Nanoparticle Vectors Enable CRISPR/Cas9-Mediated Knockin of Retinoschisin 1 Gene—A Potential Nonviral Therapeutic Solution for X-Linked Juvenile Retinoschisis. SJ Chou,Yang P, Ban Q, Yang YP, Wang ML, Chien CS, Chen SJ, Sun N, Zhu Y, Wang F, Zhang RY, Nguyen VQ, Liu Wnfei, Chen M, Jonas SJ, Weiss PS, Tseng HR*, Chiou SH*. Advanced Science. 2020 Apr 16;7(10):1903432. (IF=15.804;RANK=9/103; NANOSCIENCE & NANOTECHNOLOGY)

3/24 (日) 10:40-11:10
1 樓　第一教室

From Bench to Bedside - Application of iPSC-based Technology on Retinal Diseases

邱士華
Shih-Hwa Chiou

In recent years, due to advances in regenerative medicine and stem cell technology, as well as the use of health big data, cell therapy has broken through the barriers and bottlenecks in the treatment of many diseases and physiological research in the past, creating various possibilities for personalized precision medicine, and has become the focus of global medical competition. It is also a key policy direction for the government to promote innovative medical care in Taiwan.

The Ministry of Health and Welfare of the Executive Yuan promulgated the " Measures for the Administration of the Implementation or Use of Specific Medical Technical Inspection Instruments " (referred to as the Special management method) in 107, and formulated a draft of the " Regulations on the Administration of Regenerative Medicine Preparations " to promote Taiwan's regenerative medicine industry and emerging organisms. The basis for technological development. In recent years, Taiwan and Japan have been promoting economic structural reforms and industrial innovation measures. It is hoped that this exchange of Taiwanese clinical trials will help Japan’s successful experience in implementing the regenerative medicine industry and provide more complete domestic regenerative medicine products. Benefit the domestic public.

In the future, multi-center and cross-field clinical treatment can be carried out in Taiwan, which is expected to improve the treatment level for Taiwan's stem cell industry.



Speaker/
鄭幼文
Yu-Wen Cheng

Taipei Medical University

Current Position Title:
Professor, School of Pharmacy, Taipei Medical University
Vice Dean, College of Pharmacy, Taipei Medical University

Education/Training:

1987/09-1990/06	Bachelor of Science, Food and Nutrition Department, Shih-Chien University
1993/09-1995/06	Master, College of Medicine, Institute of Toxicology, NTU.
1995/09-1999/06	PhD, College of Medicine, Institute of Toxicology, NTU
1999/08-2000/07	Institute of Biomedical Sciences Academia Sinica
2000/08-2005/01	Assistant Professor, School of Pharmacy, Taipei Medical University
2005/02-2012/01	Associate Professor, School of Pharmacy, Taipei Medical University
2007/02-2007/10	Visiting Scholar, Institute of Toxicology and Pharmacology, College of Medicine, Texas A&M University
2012/02~present	Professor, School of Pharmacy, Taipei Medical University

Professional and Research Experience:
1.Drugs Development for Retinopathy and Age-Relative Macular Degeneration Diseases.
2.Toxicity testing for food, drugs, and cosmetics.

Awards and Honors:
NSC special talents award (2000~2023)

Selected Publications:
1.Fitriana I, Wu GH, Hsu TJ, Chan YJ, Li CH, Lee CC, Hsiao G, Cheng YW*, (2023). Activation of aryl hydrocarbon receptor by azatyrosine-phenylbutyric hydroxamide inhibits progression of diabetic retinopathy mice. Biochemical Pharmacology.(1):1-13.
2.Chan YJ, Hsiao G, Wan WH, Tsai CH, Kang JJ, Lee YC, Fang TC, Cheng YW*, Li CH*(2023)Blue light exposure collapses the inner blood-retinal barrier by accelerating endothelial CLDN5 degradation through the disturbance of GNAZ and the activation of ADAM17. Fluids and Barriers of the CNS.(20):1
3.Lin FL, Cheng YW*, Chen LH, Ho JD,, Yen JL,, Wang MH, Lee TH*, Hsiao G* (2023).Retinal protection by fungal product theissenolactone B in a sodium iodate-induced AMD model through targeting retinal pigment epithelial matrix metalloproteinase-9 and microglia activity. Biomedicine & Pharmacotherapy. (158):114138-114148.
4.Chan YJ, Liao PL, Tsai CH, Cheng YW, Lin FL, Ho JD, Chen CY, Li CH* (2021) Titanium dioxide nanoparticles impair theinner blood-retinal barrier and retinal electrophysiology through rapid ADAM17activation and claudin-5 degradation. Particle and Fibre Toxicology.(18):1-16.
5.Hsu, TJ, Nepali, K, Tsai, CH, Lin FL, Hsiao, G, Lai, MJ*, Cheng YW* (2021) The HDAC/HSP90 Inhibitor G570 Attenuated Blue Light-Induced Cell Migration in RPE Cells and Neovascularization in Mice through Decreased VEGF Production. Molecules. (26):4359--4378.
6.Chang YD, Li CH, Tsai CH, Cheng YW, Kang JJ, Lee CC* (2020) Aryl hydrocarbon receptor deficiency enhanced airway inflammation and remodeling in a murine chronic asthma model. FASEB Journal. 34(11):15300-15313. (IF:5.11; 15.1%)
7.Tsai CH, Fang TC, Liao PL, Liao JW, Chan YJ, Cheng YW*, Li CH* (2020) The Powdered Root of Eurycoma longifolia Jack Improves Beta-Cell Number and Pancreatic Islet Performance through PDX1 Induction and Shows Antihyperglycemic Activity in db/db Mice. Nutrients 12(7):2111-2126.

3/24 (日) 11:10-11:40
1 樓 第一教室

Drug Development and Pharmacological Research On Blue Light-Induced Retinopathies

鄭幼文
Yu-Wen Cheng

Our research addresses the critical need for novel treatments for dry age-related macular degeneration (dry AMD), a prominent cause of vision impairment. A significant barrier to developing effective therapies for dry AMD has been the lack of suitable animal models and diagnostic markers that closely replicate the human condition. Our study introduces an innovative animal model for dry AMD induced by blue light exposure, aiming to reflect the human disease's pathology accurately.

The model focuses on key pathological processes characteristic of blue light-induced retinopathy, pivotal in understanding and formulating strategies to combat retinal diseases exacerbated by blue light. These include photoreceptor damage, retinal pigment epithelium (RPE) cell death, inflammatory responses, blood-retinal barrier disruption, oxidative stress, free radical generation, cellular and extracellular matrix changes, and visual cycle disruption. These pathologies are further correlated with molecular mechanisms such as apoptosis, autophagy pathways, Nrf2/Keap1 and complement activation, mitochondrial dysfunction, and the accumulation of visual cycle waste product A2E (N-retinylidene-N-retinylethanolamine).

Our model serves as a testing ground for a variety of potential treatments, including histone deacetylase inhibitors (HDACi), visual cycle inhibitors (VSI), AHR activators, and select nature products. Preliminary findings indicate that certain HDACi can reverse blue light (BL)-induced Nrf2/Keap-a-1 activation, VSIs can effectively decrease A2E-induced lipofuscin, and some natural products exhibit antioxidant and anti-inflammatory effects against BL-induced ROS.

A vital aspect of our research is elucidating the underlying mechanisms of these potential treatments, which could lead to significant advancements in therapy for dry AMD. Our work highlights the importance of reducing the risks associated with excessive blue light exposure, especially from artificial sources like 3C products. It aims to make a substantial contribution to the field of ophthalmology. This study not only furthers our understanding of the pathology of blue light-induced retinopathy but also opens up new avenues for developing effective treatments for dry AMD.



Speaker/
蔡榮坤
Rong-Kung Tsai

Institute of Medical Sciences, Tzu Chi University;
Institute of Eye Research, Hualien Tzu Chi General Hospital

Current Position Title:
Director and Professor, Institute of Medical Sciences (Feb. 2014--); Director, Institute of Eye Research, Hualien Tzu Chi General Hospital (Feb. 2014--)

Education/Training:
MD and PhD, Kaohsiung Medical University
Residency Program, Department of Ophthalmology, Kaohsiung Medical University Hospital (1984-1988)

Professional and Research Experience:
Director and Professor, Department of Ophthalmology, Hualien Tzu Chi Hospital (2003-2014).
Director and Professor, Department of Ophthalmology and Visual Sciences, College of Medicine, Tzu Chi University (2003-2014)
Director and Associate Professor, Department of Ophthalmology, Kaohsiung Municipal Hsiaokang Hospital. (2000-2003)

Selected Publications:
1. Miller NR, Tsai RK*. Optic Neuropathies: Current and Future Strategies for Optic Nerve Protection and Repair. Int J Mol Sci. 2023 Apr 10;24(8):6977.
2. Chen TW, Wu PY, Wen YT, Desai TD, Huang CT, Liu PK, Tsai RK*. Vitamin B3 Provides Neuroprotection via Antioxidative Stress in a Rat Model of Anterior Ischemic Optic Neuropathy. Antioxidants (Basel). 2022 Dec 8;11(12):2422.
3. Desai TD, Wen YT, Daddam JR, Cheng F, Chen CC, Pan CL, Lin KL, Tsai RK*.Long term therapeutic effects of icariin-loaded PLGA microspheres in an experimental model of optic nerve ischemia via modulation of CEBP-β/G-CSF/noncanonical NF-κB axis. Bioeng Transl Med. 2022 Jan 7;7(2):e10289.
4. Wen YT, Ho YC, Lee YC, Ding DC, Liu PK, Tsai RK*. The Benefits and Hazards of Intravitreal Mesenchymal Stem Cell (MSC) Based-Therapies in the Experimental Ischemic Optic Neuropathy. Int J Mol Sci 2021, 20;22(4):2117.

3/24 (日) 11:40-12:10
1 樓　第一教室

Therapeutic Effects of Pegfilgrastim (PEG-G-CSF) in Traumatic Optic Neuropathy (TON): From Bench to Clinic.

蔡榮坤
Rong-Kung Tsai

There is no established effective treatment for traumatic optic neuropathy (TON). The search for effective treatments for TON is emerging. In our preclinical trials, we have demonstrated that intravitreal injection (IVI) of Pegfilgrastim has neuroprotective effects on an optic nerve crush (ONC) rat model. The protective actions are mainly anti-apoptosis, anti-inflammation and preserve the blood-optic nerve barriers (BOB). Since Pegfilgrastim is an available drug in the oncology department, we conducted a phase 1 trial of Pegfilgrastim (Neulasta®) use in patients with indirect TON. A total of 12 participants (10M and 2F) were enrolled in this trial. The average age was 42.8 y/o. The average duration of treatment post-trauma was 17.4 days. There was no SAE. The log MAR BCVA was improved in 9 patients (75%) and 8 patients (67%) at one-month and three-month follow-up respectively. The visual field examination also showed improvement in 6 patients (50%). In conclusion, Intravitreal injection of Pegfilgrastim was safe for patients with indirect TON. There was no SAE. Certain participants got vision improvement after treatment at three-month follow-ups.



Speaker/
王憶卿
Yi-Ching Wang

國立成功大學藥理所

Current Position Title:
國立成功大學藥理學研究所暨基礎醫學研究所講座教授

Education/Training:
1988-1993 美國密西根州立大學遺傳學研究所博士

Professional and Research Experience:
2015- 迄今 國立成功大學藥理學研究所暨基礎醫學研究所講座教授
2006-2015 國立成功大學藥理學研究所特聘教授
1999-2006 國立臺灣師範大學生命科學系教授
1995-1999 中山醫學大學醫學分子毒理學研究所副教授
1993-1995 中央研究院生物醫學科學研究所博士後研究員

Awards and Honors:
2023 第 19 屆永信李天德卓越醫藥科技獎
2022 教育部第 66 屆學術獎
2021 傑出人才發展基金會－傑出人才講座
2017 王民寧先生紀念基金會之基礎醫學類－傑出貢獻獎
2014,2010, 2004 國家科學委員會／科技部－傑出研究獎

Selected Publications:
1. Wu SY, Wang YC, Zuchini R, Lan KY, Lan SH, Liu HS. 2023. Secretory autophagy-promoted cargo exocytosis requires active RAB37. Autophagy doi: 10.1080/15548627.2023.2210446.
2. Yang PS, Yu MH, Hou YC, et al, Shan YS*, Wang YC*. 2022. Targeting protumor factor chitinase-3-like-1 secreted by Rab37 vesicles for cancer immunotherapy. Theranostics, 12(1):340-361. (cover article)
3. Hsieh CH, et al., Wang YC*. 2022. Dysregulation of SOX17/NRF2 axis confers chemoradiotherapy resistance and emerges as a novel therapeutic target in esophageal squamous cell carcinoma. J Biomed Sci. 29(1):90.
4. Kuo IY, et al, Chang CP*, Wang YC*. 2021. Converged Rab37/IL-6 trafficking and STAT3/PD-1 transcription axes elicit an immunosuppressive lung tumor microenvironment. Theranostics 11(14):7029-7044. (cover article)
5. Hsieh CH, Hsieh HC, Fu FH, et al., Shieh DB*, Wang YC*. 2021. An innovative NRF2 nano-modulator induces lung cancer ferroptosis and elicits an immunostimulatory tumor microenvironment. Theranostics, 11(14):7072-7091. (cover article)

3/24 (日) 14:00-14:30
1 樓　第一教室

Exploring the Exocytic Pathways as Targets for Cancer Treatment

王憶卿
Yi-Ching Wang

Accumulating evidence indicates implication of Rab small GTPase-mediated exocytosis in shaping the tumor microenvironment. Here, we investigate the role of Rab37 in modulating tumor microenvironmental cells including macrophages and T cells and develop neutralizing antibodies targeting the protumor secretory factors mediated by Rab37. We identified previously uncharacterized mechanisms by which Rab37 mediated exocytosis of interleukin 6 (IL-6) and chitinase 3-like-1 (CHI3L1) to promote STAT3 signaling and PD-1 expression in CD8+ T cells, while Rab37 regulated ST2L (also known as IL-1 receptor like 1), the natural receptor of IL-33 to activate recruitment of tumor associated macrophages. Importantly, combined treatment of anti-IL-6 and anti-CTLA-4 in an orthotopic lung cancer model reduced PD-1 presentation on tumor-infiltrating T cells, suppressed lung tumor growth and improved survival rate of treated mice. Moreover, our newly developed CHI3L1 neutralizing antibody and ST2L/IL-33 blocking antibodies inhibited tumor growth and metastases in vivo. Lung cancer patients with high CHI3L1 plasma concentration correlated with poor survival. Our study advances our understanding of Rab37-mediated exocytosis and potential immunotherapies targeting the protumor secretory pathways for cancer treatment.



Speaker/
林宥欣
Yu-Hsin Lin

Department of Pharmacy, National Yang Ming Chiao Tung University

Current Position Title:
Professor

Education/Training:
Postdoc/Chemical Engineering, Tsing Hua University/Taiwan
Ph.D/Chemical Engineering, Tsing Hua University/Taiwan
M.Sc/Chemical Engineering, Feng Chia University
B.Sc./Chemical Engineering, Feng Chia University

Professional and Research Experience:
Aug 2017 - present Professor, National Yang-Ming University, Taipei, Taiwan
Sep. 2015-July 2017 Professor, Department of Biological Science and Technology, China Medical University, Taichung, Taiwan

Awards and Honors:
1. Teaching Excellence and Outstanding Teacher Award at the National Yang-Ming Chiao Tung University in 2021.
2. Young Scholar Excellent Presentation Award at the Biomaterials and Drug Delivery Conference in 2016.
3. Outstanding Young Scientist Award at the 5th Asia Biomaterials Congress in 2015. Please revise the sentences

Selected Publications:
1. Huang HL, Lai CH, Tsai WH, Chen KW, Peng SL, Lin JH, Lin YH*. Nanoparticle-enhanced postbiotics: revolutionizing cancer therapy through effective delivery. Life Sciences. (2023) December, In press.
2. Chen KW, Hsu PH, Huang HL, Liu HL, Lin YT, Hsu CY, Lin JH, Lin YH*. Targeting nanoparticle-conjugated microbubbles combined with ultrasound-mediated microbubble destruction for enhanced tumor therapy. Pharmacological Research (2022) November 2;186:106536.
3. Hsiao CH, Huang HL, Chen YH, Chen ML, Lin YH*. Enhanced antitumor effect of doxorubicin through active-targeted nanoparticles in doxorubicin-resistant triple-negative breast cancer. Journal of Drug Delivery Science and Technology (2022) October 7; 77:103845.
4. Chen ML, Lai CJ, Lin YN, Huang CM, Lin YH*. Multifunctional nanoparticles for targeting the tumor microenvironment to improve synergistic drug combinations and cancer treatment effects. Journal of Materials Chemistry B (2020) Dec 8(45):10416-10427.
5. Chu PY, Tsai SC, Ko HY, Wu CC, Lin YH*. Co-delivery of natural compounds with a dual-targeted nanoparticle delivery system for improving synergistic therapy in an orthotopic tumor model. ACS Applied Materials and Interfaces (2019) July 11(27):23880-23892.

3/24 (日) 14:30-15:00
1 樓　第一教室

Innovative Strategies in The Development of Nanoparticles To Augment Therapeutic Potential Effects in Cancer Therapy

林宥欣
Yu-Hsin Lin

The abnormal growth and proliferation of cells can lead to cancer, where these aberrant cells may infiltrate deep into the stomach wall or spread to nearby tissues. There is a growing interest in developing targeted carrier systems that integrate both therapeutic and diagnostic capabilities. In our pursuit of effectively targeting tumors, ensuring optimal penetration of the tumor barrier, access to the tumor microenvironment, and precise local drug release is crucial. To address this, we engineered a biopolymer nanoparticle designed for delivering drugs specifically to tumors. In this study, we employed targeted nanoparticles loaded with anticancer drugs to enhance drug delivery efficacy. The morphology of the as-prepared nanoparticles, as well as the particle size distribution, is depicted in the images. To investigate the release of drugs from the nanoparticle samples, we utilized confocal laser scanning microscopy to assess the local accumulation of nanoparticles in tumors. Following the injection of fluorescent nanoparticles into the tail vein of mice, the animals were euthanized to quantify the total count of fluorescent cells in tumors and normal tissues. Remarkably, fluorescence signals from nanoparticles were significantly observed in the tumor tissue compared to normal tissue. This outcome unequivocally confirms the effective tumor-targeting ability of the nanoparticles in orthotopic tumor mouse models.

References

1) Lin, YH. et al. Pharmacological Research 2022, 186, 106536.
2) Lin, YH. et al. Pharmaceutics 2021, 13, 1327.



Speaker/
黃偉謙
Wei-Chien Huang

Graduate Institute of Biomedical Sciences, China Medical University

Current Position Title:

2017/08~present Professor and Associate Director, Graduate Institute of Biomedical Sciences, China Medical University
2012/11~present Research Fellow, Center for Molecular Medicine, China Medical University Hospital, Taichung, Taiwan

Education/Training:

2006/04~2007/11 Postdoc. Department of Molecular and Cellular Oncology, UT. M.D. Anderson Cancer Center, Houston, TX, USA
2004/04~2006/03 Postdoc. Department of Pharmacology, College of Medicine, NTU
2000/09~2004/03 Ph.D. Department of Pharmacology, College of Medicine, NTU
1998/09~2000/06 Master. Department of Pharmacology, College of Medicine, NCKU
1989/09~1995/06 Bachelor. Department of Pharmacy, Tajen University,

Professional and Research Experience:

2017/09~2023/02 Associate Dean, the Department of Research & Development, CMU
2011/08~2017/07 Associate Professor, Graduate Institute of Cancer Biology, Graduate Institute of Biomedical Sciences, CMU
2008/02~2011/07 Assistant Professor, Graduate Institute of Cancer Biology, CMU

Awards and Honors:

1. Teacher Award for Outstanding Teaching Performance, College of Medicine
2. Young Scholar Award for Medical Research, Professor C. Y. Lee Foundation
3. Young Research Scholar Award, The Pharmacological Society in Taiwan
4. Excellent Ph.D. thesis Award of Wang Ming-Ning Memorial Foundation

Selected Publications:

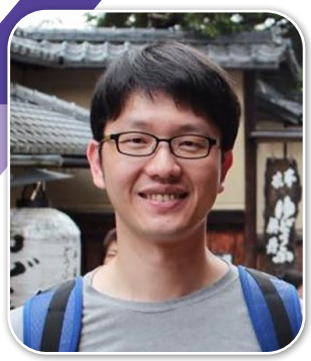
1. Cheng FJ, Huynh TK, Ko HY, Hsueh CS, Yeh YL, Wu YC, Tang CH, Chen C-H, Tu CY, Ho CY, and Huang WC#. Umbelliferone and eriodictyol suppress the cellular entry of SARS-CoV-2. Cell and Bioscience. 2023; 13:118.
2. Cheng F-J, Chen C-H, Tsai W-C, Wang B-W, Yu M-C, Hsia T-C, Wei Y-L, Hsiao Y-C, Hu D-W, Ho C-Y, Li T-S, Wu C-Y, Chou W-Y, Yu Y-L, Tang C-H, Chen C-Y, Chen C-M, Hsu JL, Chen HF, Chen Y, Tu CY, Hung MC, and Huang WC#. Cigarette smoke-induced LKB1/AMPK pathway deficiency reduces EGFR TKI sensitivity in NSCLC. Oncogene 2021; 40: 1162-1175.
3. He YH, Yeh MH, Chen HF, Wang TS, Wong RH, Wei YL, Huynh TK, Hu DW, Cheng FJ, Chen JY, Hu SW, Huang CC, Chen Y, Yu J, Cheng WC, Shen PC, Liu LC, Huang CH, Chang YJ, and Huang WC#. ERα determines the chemoresistant function of mutant p53 involving the switch between lincRNA-p21 and DDB2 expressions. Molecular Therapy-Nucleic Acids. 2021, 25:536-553.
4. Chen CH, Wang BW, Hsiao YC, Wu CY, Cheng FJ, Hsia TC, Chen CY, Wang Y, Weihua Z, Chou RH, Tang CH, Chen YJ, Wei YL, Hsu JL, Tu CY, Hung MC, and Huang WC#. PKC delta-mediated SGLT1 upregulation confers the acquired resistance of NSCLC to EGFR TKIs. Oncogene 2021. 40: 4796-4808.
5. Huynh TK, Huang CH, Chen JY, Yao JH, Yang YS, Wei YL, Chen HF, Chen CH, Tu CY, Hsu YM, Liu LC, and Huang WC#. MiR-221 confers lapatinib resistance by negatively regulating p27kip1 in HER2-positive breast cancer. Cancer Science. 2021; 10: 4234-4245

3/24 (日) 15:15-15:45
1 樓　第一教室

New Strategies for The Treatment of Breast Cancer

黃偉謙
Wei-Chien Huang

Early-onset breast cancer (EOBC) patients, diagnosed before the age of 45, exhibit diminished therapeutic responses and overall survival rates. Our investigations underscore the pivotal role of plasticizer exposure as a significant risk factor for EOBC, influencing immune surveillance dysregulation and metabolic reprogramming. Specifically, exposure to the plasticizer DEHP hampers T cell-mediated cytotoxicity by elevating the expression of the immune checkpoint PD-L1 in an ERβ-dependent manner. Moreover, DEHP accelerates tumor growth through increased expressions of CCND1-CDK4. Combination therapy involving an anti-PD-1 antibody and the CDK4/6 inhibitor Palbociclib enhances CD8+ T cell activation and tumor infiltration, demonstrating superior anti-cancer efficacy with fewer side effects in a plasticizer-associated breast cancer mouse model. In addition, DEHP exposure augments glutamine utilization and oxidative phosphorylation by upregulating the glutamine transporter SLC6A14, thereby enhancing the cancer stemness of breast cancer cells. Targeting SLC6A14 significantly suppresses DEHP-associated tumor growth in a xenograft mouse model of breast cancer. These findings unveil novel therapeutic strategies for EOBC patients, providing insights into the potential benefits of combination therapies and targeted interventions against plasticizer-induced breast cancer progression.



Speaker/
華國泰
Kuo-Tai Hua

Graduate Institute of Toxicology, College of Medicine, National Taiwan University

Current Position Title:
Professor

Education/Training:
PhD: 2005-2010 Institute of Toxicology, College of Medicine, National Taiwan University
MSc: 2002-2004 Institute of Biochemistry and Molecular Biology, College of Medicine, National Taiwan University
BSc: 1995-1999 Department of Life Science, National Taiwan Normal University

Professional and Research Experience:
2011.1-2013.6 Postdoctoral Researcher, Genomic Research Center, Academia Sinica
2013.8-2018.7 Assistant Professor, Graduate Institute of Toxicology, College of Medicine, National Taiwan University
2018.8-2022.7 Associated Professor, Graduate Institute of Toxicology, College of Medicine, National Taiwan University
2022.7- Professor, Graduate Institute of Toxicology, College of Medicine, National Taiwan University

Awards and Honors:
2022 Professor Chen-Yuan Lee Medical Memorial Award (NTU)
2022 Project for Excellent Junior Research Investigator Award (MoST)
2019 Project for Excellent Junior Research Investigator Award (MoST)
2013 Outstanding Talents Recruitment Grant (MoST)
2011 Distinguished Thesis Awards of the 21st Wang Ming-Ning Award

Selected Publications:
1. Ho KH, Pan KF, Cheng TY, Chien MH*, Hua KT*. Multiple impacts of Naa10p on cancer progression: Molecular functions and clinical prospects. Biochim Biophys Acta Rev Cancer. 2023 Nov;1878(6):188973.
2. Pan KF, Liu YC, Hsiao M, Cheng TY*, Hua KT*. Naa10p promotes cell invasiveness of esophageal cancer by coordinating the c-Myc and PAI1 regulatory axis. Cell Death Dis. 2022 Nov 24;13(11):995.
3. Pan KF, Yang YC, Lee WJ, Hua KT*, Chien MH*. Proteoglycan Endocan: A multifaceted therapeutic target in Cancer. Biochimica et Biophysica Acta - Reviews on Cancer. 2022 Jan;1877(1):188672.
4. Pan KF, Lee WJ, Chou CC, Yang YC, Chang YC, Chien MH, Hsiao M, Hua KT*. Direct interaction of β-catenin with nuclear ESM1 supports stemness of metastatic prostate cancer. EMBO Journal. 2021 Feb 15;40(4):e105450.
5. Yang YC, Pan KF, Lee WJ, Chang JH, Tan P, Gu CC, Chang WM, Yang SF, Hsiao M, Hua KT*, Chien MH*. Circulating Proteoglycan Endocan Mediates EGFR-Driven Progression of Non-Small Cell Lung Cancer. Cancer Research. 2020 Aug 15;80(16):3292-3304.

3/24 (日) 15:45-16:15
1 樓　第一教室

Cellular And Subcellular Mislocalization of Endocan in Cancer– A Multifaceted Oncoprotein

華國泰
Kuo-Tai Hua

Moonlighting proteins exhibit more than one physiologically relevant biochemical or biophysical function within one polypeptide chain. The moonlighting functions of critical regulatory proteins play central roles in many diseases, including cancer. We have identified a secretory proteoglycan, endothelial cell-specific molecule 1 (ESM1), that exhibits additional protein characteristics during cancer development beyond its initially identified angiogenic roles. We discovered that secreted ESM1 can directly interact with both EGF and EGFR proteins, enhancing their interaction and potentiating EGFR signaling in non-small cell lung cancer (NSCLC) cells. Even NSCLC cells with EGFR mutations require the presence of ESM1 to maintain higher EGFR phosphorylation levels and increased cell proliferation rates. Conversely, we observed unexpected ESM1 localization in the nucleus of prostate cancer cells, particularly in the cancer stem cell (CSC) population. Subsequent functional evaluations suggested that nuclear ESM1 helps maintain CSC stemness through interaction and stabilization of the β-catenin-TCF4 complex. A positive regulatory loop exists between β-catenin and ESM1 since β-catenin also mediates ESM1 nuclear translocation. As a moonlighting protein, ESM1 not only acts as a secreted proteoglycan, executing its ligand-like roles outside the cell, but also enters the cell nucleus, serving as a co-transcriptional factor mediating WNT signaling activation. Our ESM1-derived peptides also show promising effects in blocking EGF/EGFR or WNT signaling activation in NSCLC or prostate cancer cells, respectively. This suggests that targeting the unique moonlighting function of critical oncogenic proteins, such as ESM1, may provide novel therapeutic niches and lead to innovative cancer treatments.



Speaker/
潘秀玲
Shiow-Lin Pan

Graduate Institute of Cancer Biology and Drug Discovery/
Taipei Medical University

Current Position Title:

2023/03-present Dean, College of Medical Science and Technology, Taipei Medical University, Taiwan

Education/Training:

Ph.D. Institute of Pharmacology, College of Medicine, National Taiwan University, Taiwan

Professional and Research Experience:

2020/08-2023/02 Vice Dean, College of Medical Science and Technology, Taipei Medical University, Taiwan
2019/02-2022/07 Director, Ph.D. Program in Drug Discovery and Development Industry, Taipei Medical University, Taiwan
2009/12-2013/01 Assistant Investigator, Institute of Biotechnology and Pharmaceutical Research, National Health Research Institutes, Taiwan

Awards and Honors:

2023 Taipei Biotech Award/Technology Transfer Collaboration Award
2023 National Science Council/Bio Summer Camp/Outstanding Female Scientist Lecture
2020 BioMed Innovation Center/National Innovation Award for Startups, 2021, 2022, 2023 National Innovation Award for Startups, Advanced Continuation Award
2021 Ministry of Science and Technology/Future Tech Award
2021 Taiwan-Berkeley Health Innovation Accelerator-Berkeley Public Health Program Training Program

Selected Publications:

1. Yen SC, Wu YW, Huang CC, Chao MW, Tu HJ, Chen LC, Lin TE, Sung TY, Tseng HJ, Chu JC, Huang WJ, Yang CR, HuangFu WC, Pan SL*, Hsu KC*. O-methylated flavonol as a multi-kinase inhibitor of leukemogenic kinases exhibits a potential treatment for acute myeloid leukemia. Phytomedicine. 2022 Jun;100:154061.
2. Wu YW, Chao MW, Tu HJ, Chen LC, Hsu KC, Liou JP, Yang CR, Yen SC, HuangFu WC, Pan SL*. A novel dual HDAC and HSP90 inhibitor, MPT0G449, downregulates oncogenic pathways in human acute leukemia in vitro and in vivo. Oncogenesis. 2021 May 13;10(5):39.
3. Sung TY, Huang HL, Cheng CC, Chang FL, Wei PL, Cheng YW, Huang CC, Lee YC, HuangFu WC, Pan SL*. EGFL6 promotes colorectal cancer cell growth and mobility and the anti-cancer property of anti-EGFL6 antibody. Cell Biosci. 2021 Mar 16;11(1):53.
4. Huang HL, Liu YM, Sung TY, Huang TC, Cheng YW, Liou JP, Pan SL*. TIMP3 expression associates with prognosis in colorectal cancer and its novel arylsulfonamide inducer, MPT0B390, inhibits tumor growth, metastasis and angiogenesis. Theranostics. 2019 Sep 16;9(22):6676-6689.

3/24 (日) 16:15-16:45
1 樓　第一教室

From Code to Cure: Bridging Drug Discovery, Pharmacology, and Startup

潘秀玲
Shiow-Lin Pan

Drug development is a challenging and time-consuming process. The primary objective of our drug discovery team is to facilitate the transition of new drugs from the laboratory to the clinical and eventually to the market, following the principle of "From Bench to Bedside to Business." To achieve this, it is essential to integrate experts from various professional fields in new drug research. Recently, our team has utilized artificial intelligence (AI) platforms for drug discovery. Our process begins with identifying hit compounds, which are then optimized to become lead compounds. Finally, candidate compounds are carefully selected for entry into clinical trials.

Our team has developed an anti-cancer drug named MPT0E028, which is the first drug in Taiwan initiated by the academic community and has completed Phase I clinical trials at National Taiwan University Hospital and Taipei Medical University Hospital. The MPT0E028 technology has also successfully transferred to a Taiwanese biotech company and is expected to enter Phase II clinical trials. Furthermore, our team developed a selective HDAC6 inhibitor, MPT0G211, a novel anti-cancer drug exclusively licensed to a spin-off company derived from Taipei Medical University. The company is actively raising funds domestically and internationally to apply for the US FDA and Taiwan TFDA IND in 2024.

In recent years, our research started with patentable development and then published papers to create value. Therefore, once their research outcomes are patented, they become the leading force for technology transfer or establishing new startups. We are also responsible for nurturing high-level talents in the biopharmaceutical industry, leading the pharmacologist and development team and students to participate in domestic and international accelerators. We have been selected as one of the eight teams in the NBRP Biomed Startup Challenge jointly organized by Academia Sinica and AstraZeneca, one of the two national teams selected by the National Development Council, SkyDeck Innovation, and SPH Program at UC Berkeley, second place in the RESI Innovation Challenge, and one of the three teams selected by Smart Lab, the largest accelerator in the East Coast in the US.

Therefore, developing new drugs requires teamwork and integrating AI methods to accelerate the drug development timeline. Our team combines AI in drug design, pharmacologists, toxicologists, medicinal chemistry experts, and clinical physicians. We have developed 25 small molecule drugs, each with a target protein activity of IC50 < 10 nM, and they will be applied to various indications, including rare diseases. Finally, by promoting our research outcomes internationally, we aim to bring attention and opportunities for authorization to our drug development team and research achievements.

38th 生物醫學聯合學術年會

2024 The 38th Joint Annual Conference of Biomedical Science

科技新知研討會

Technology Symposium



時間：3 月 23 日 (週六) 12:00-13:00
地點：3 樓，33 教室
單位：諾貝爾生物有限公司

Speaker: Gavian Lua, Ph.D
Application and Customer Solution Manager, New England Biolabs. Singapore.

Moderator: 陳逸生 經理

Overcoming Challenges in Ngs Library Preparation of Ffpe Samples and Ultrafast Workflows in Ngs Library Preparation.

Generating FFPE DNA libraries can be challenging due to low input amounts and its highly fragmented nature caused by fixation and storage. This often results in low library yield, damaged bases and sequencing errors. NEB has overcome these challenges by developing a dedicated FFPE DNA library preparation kit so that high library yield and high-quality libraries can be generated. This will increase the sensitivity of somatic variant calling and improved benefits in clinical applications.

In addition to working with challenging samples for NGS, standard NGS workflows are typically long and tedious. This prohibits application of NGS in clinical settings where delivery of results can be critical. NEB has recently developed the next generation of library preparation kits which shortens typical workflows to <2hrs (DNA) or <3hrs (RNA). The streamlined workflow also enables pooling of multiple sample types, enabling fast sample to result so that medical decisions can be made as early as possible. Find out more on what NEB has to offer!

時間：3 月 23 日 (週六) 12:00-13:00
地點：3 樓，30 教室
單位：威健股份有限公司

Speaker: 吳佳欣 博士
現任 Somalogic 亞太區高級應用科學家，負責大中華區技術支持工作，畢業於台灣大學醫學院微生物學研究所，曾獲 Merck Young Scientist Award、王民寧獎，加入 Somalogic 前曾擔任 Luminex 應用支持專家及實驗室培訓經理，協助用戶及商業合作夥伴建立及優化 Luminex 實驗，並於新冠肺炎期間負責相關產品的測試及驗證，在多重檢測應用及高通量技術領域推廣累積十幾年經驗。

Moderator: 林怡杏 博士
威健股份有限公司總經理

從早期發現到臨床轉譯 - Somalogic 助力蛋白質體學解密 " and Covers Technology Overview, Applications, and Products.

SomaLogic 公司推出的 SomaScan Assay，是一個基於專利核酸適體—SOMAmer 建構的高通量蛋白質體學檢測平台，目前參與了全球主要人群和疾病模型的隊列項目，以更廣泛的蛋白質覆蓋度，助力疾病和群體研究及臨床醫學轉譯。具高度專一性的 SOMAmer 同時兼具良好的穩定性及再現性，SomaScan Assay 僅需要 55 µl 樣品即可檢測 1 萬種蛋白，覆蓋 10 個數量級不同豐度的蛋白，樣品種類兼容性大，可檢測包括人及其他模式動物的血液，尿液， 體液等樣品。除了液體活檢、腫瘤早篩、腫瘤標誌物發現、藥物開發、伴隨診斷、藥物適應症拓展等應用外，也是美國 FDA, NIH 及許多藥廠合作認可的蛋白質體學檢測平台。

主題：Advancements in Cancer Research: Revealing Novel Therapeutic Targets
癌症研究的進展：揭示新的治療目標
時間：3 月 23 日 (週六) 12:00-12:30
地點：1 樓，第一教室
單位：弘晉有限公司

Speaker: Terry Sunderland

Global Distribution Manager, Enzo Life Sciences
Terry trained as a cell and molecular biologist at CSIRO, Deakin and Melbourne Universities in Australia. Upon moving into industry where he has worked across APAC and EMEA as technical sales specialist covering cell biology for Gibco, Clinical preanalytical at BD, ATCC EMEA distribution for LGC standards, European market entry for Speedx MDx before joining Enzo to manage their global distribution network.

Moderator: 陳瀅如 弘晉公司產品專員

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主題：Advancements in Cancer Research: Revealing Novel Therapeutic Targets
癌症研究的進展：揭示新的治療目標
時間：3 月 23 日 (週六) 12:30-13:00
地點：1 樓，第一教室
單位：弘晉有限公司

Speaker: Jasper Ho, Ph.D
Scientific Officer, InvivoGen
Currently in charge of InvivoGen research reagents technical support and business development in the Asia-Pacific region.

Education:
- Master degree, Biochemistry, 2013, The University of Hong Kong, Hong Kong
- Doctor degree, Biomedical Sciences, 2018, The University of Hong Kong, Hong Kong
- Doctor degree, Molecular Genetics, 2018, University of Toronto, Canada

Moderator: 陳瀅如 弘晉公司產品專員

Pyroptosis: A Promising Therapeutic Target
細胞焦亡 (Pyroptosis) 作為腫瘤治療的新策略

Pyroptosis represents a highly inflammatory form of lytic programmed cell death frequently associated with intracellular pathogen infection. It is characterized by Gasdermin-mediated pore formation, cellular lysis and the release of pro-inflammatory cytokines. However, recently, the relationship between pyroptosis and tumor immunity has attracted attentions. As in cancer immunotherapy, pyroptosis has been shown to enhance the anti-tumor efficacy of immune checkpoint inhibitors. This presentation will cover the background of pyroptosis, as well as recent breakthrough on directing pyroptosis to the anti-tumor action.

時間：3 月 23 日 (週六) 13:00-14:00
地點：3 樓，34 教室
單位：萊富生命科技股份有限公司

Speaker: 陳燕麟 Yen-Lin Chen M.D. Ph.D.
Director of Center for Precision Medicine and Genomics, Tri-service General Hospital
Department of Pathology, Tri-service General Hospital
Assistant Professor, National Defense Medical Center

臨床基因檢測方法學的考量：從遺傳疾病診斷到癌症藥物伴隨式檢測
Considerations in the Methodology of Clinical Genetic Testing: From the Diagnosis of Genetic Diseases to Companion Diagnostics for Cancer Therapeutics

臨床基因檢測成為診斷遺傳疾病和癌症治療的關鍵工具。將與大家分享檢測方法學的重要考量。首先，我們將聚焦於癌症藥物伴隨式檢測，探討個別化治療方案以提高療效需要注意哪些環節，包含癌症相關基因變異是否含蓋、是否有更簡便的方式。其次，將探討遺傳疾病診斷，強調在確保檢測的準確性和可靠性上的挑戰，檢測方案的制定需要考慮基因變異的相應性。在此臨床領域，必須細心思考檢測的敏感性、特異性，並了解檢測方法的局限性，如無法檢測大片段缺失或複雜基因變異，由於基因信息的大量性質，有效的大數據管理和生物資訊分析工具更顯得重要。

時間：3 月 23 日 (週六) 14:00-15:00
地點：3 樓，34 教室
單位：萊富生命科技股份有限公司

Speaker: 張心儀 Hsin-Yi Chang, Ph.D.
Assistant Professor, Graduate Institute of Medical Sciences,
National Defense Medical Center

Proteomics Toolbox for Dissecting Molecular Signaling and Post-Translational Modifications

The content will cover the chemical proteomics for plasma membrane protein enrichment and TMT-based phosphoproteome and global proteome analysis for understanding the drug resistance MoA.

主題：• Immuno-oncology and immune checkpoint inhibitors
• IHC as a tool for predicting therapeutic responses in cancer immunotherapy
• Discussion on current challenges in performing IHC and potential approaches to overcome this

時間：3 月 23 日 (週六) 12:00-13:00
地點：1 樓，可勝廳
單位：昶安科技有限公司

Speaker: 周婉亭 博士 Dr. Sharon Chew (APAC Scientific Support Specialist)

周博士是 Abcam 新加坡的科學支援專員，擁有新加坡南洋理工大學皮膚研究博士學位。她專注於利用經皮技術開發細胞傳遞平台，並在製藥公司擔任開發和驗證針對皮膚疾病的蛋白傳遞技術。憑藉豐富的實作經驗和技術專長，她協助研究人員優化和解決實驗中的問題，助力任務順利完成。周博士持有新加坡南洋理工大學生物工程榮譽工程學士學位。

學歷：
• Bachelor of Engineering (Honours) in Bioengineering, Nanyang Technological University
• Doctor of Philosophy - PhD, Skin Research, Nanyang Technological University

工作經驗：
• Sharon is a Scientific Support Specialist at Abcam Singapore. Before joining Abcam Singapore, Sharon obtained her PhD in Skin Research from the Nanyang Technological University, where she focused on the development of a cell delivery platform utilizing transdermal technology. Subsequently, she worked in a pharmaceutical company developing and validating protein delivery technologies targeting skin diseases. In her current role as the Scientific Support Specialist, Sharon leverages her technical expertise to assist the researchers in optimizing and troubleshooting their experiments, helping them to achieve their mission faster.

Moderator: 馬國興 主任

國防醫學院生解學科教授，國防醫學院研究發展室主任

Investigating Immuno-oncology with Immunohistochemistry: Tools, Tips & Troubleshooting
探索免疫腫瘤學與免疫組織化學：工具與排疑技巧

Immuno-oncology has revolutionized cancer treatment by harnessing the body's own immune system to combat cancer. Immune checkpoint inhibitors (ICI) such as pembrolizumab and nivolumab, enhance anti-tumour immune responses by blocking inhibitory signals. Determining the suitable immunotherapy for each patient with a specific cancer is crucial, as the response to a particular treatment protocol can vary considerably. Immunohistochemistry (IHC) is a powerful diagnostic tool that can be used to measure specific biomarkers and aid in predicting a patient's response to an immunotherapy. This can help to stratify patients into different treatment groups to inform clinical treatment pathway decisions. This technical talk will cover the cancer-immunity cycle, and the importance of IHC in immunotherapy. We will share some optimization and troubleshooting tips for common IHC issues and introduce a range of IHC tools Abcam offers to help researchers like you to obtain quality results efficiently with confidence.

免疫腫瘤學已通過利用人體自身的免疫系統來對抗癌症，徹底改變了癌症治療。免疫檢查點抑制劑 (ICI) 如 pembrolizumab 和 nivolumab，通過阻斷抑制信號來增強抗腫瘤免疫反應。確定每位患有特定癌症的患者適合的免疫療法至關重要，因為對特定治療方案的反應可能有很大差異。免疫組織化學 (IHC) 是一種強大的診斷工具，可用於測量特定生物標誌物，並幫助預測患者對免疫療法的反應。這有助於將患者分為不同治療組，以協助制定臨床治療方案決策。本技術講座將涵蓋癌症免疫週期，以及 IHC 在免疫療法中的重要性。我們將分享一些針對常見 IHC 問題的優化和排疑技巧，並介紹 Abcam 提供的各種 IHC 工具，幫助研究人員高效地獲得高質量的結果。

38th 生物醫學聯合學術年會

2024 The 38th Joint Annual Conference of Biomedical Science

口頭論文報告資訊

Oral Presentation



大會主題競賽

時間：3 月 24 日 (週日) 7:30-9:30
地點：3 樓，致德堂

編號	論文題目
O01	Pathogenic role of gain-of-function TALK1-L114P channel in maturity-onset diabetes of the young 蔡文豪 , 林士哲 , 徐如玉 , Johannes Pfabe, Cédric Grauffel, 林小喬 , Marjan Slak Rupnik, 楊世斌 Wen-Hao Tsai, Shih-Che Lin, Ju-Yu Hsu Johannes Pfabe, Cédric Grauffel, Carmay Lim, Marjan Slak Rupnik, and Shi-Bing Yang
O02	Acrylamide, an Air Pollutant, Enhances Allergen-Induced Eosinophilic Lung Inflammation via Group 2 Innate Lymphoid Cells 蘇湘涵 , 鄭智美 , 楊詠甯 , 張昱維 , 李佳陽 , 吳欣庭 , 林珈淇 , 吳欣恩 , 孫昭玲 Hsiang-Han Su, Chih-Mei Cheng, Yung-Ning Yang, Yu-Wei Chang, Chia-Yang Li, Shin-Ting Wu, Chia-Chi Lin, Hsin-En Wu, Jau-Ling Suen
O03	Shaping Early Neural Development by Elevated Tissue Oxygen Tension: Insights from Multiomic Analysis in Human Cerebral Organoids 劉遠萱 , 鍾孟庭 , 林希潔 , 李澤昂 , 鄭雅仁 , 黃建彰 , 吳筱梅 , 董奕鍾 Yuan-Hsuan Liu, Meng-Ting Chung, Hsi-Chieh Lin, Tse-Ang Lee, Ya-Jen Cheng, Chien-Chang Huang, Hsiao-Mei Wu, Yi-Chung Tung
O04	C-MYC-driven epigenetic reprogramming contributes to the differentiation of colorectal cancer stem cells 鍾岱融 , 王俊皓 , 劉品蓉 , 黃襄國 , 羅琮凱 , 卓思涵 , 李心慈 , 許岱憶 , 范嘉筑 , 魏子堂 Dai-Jung Chung, Chun-Hao Wang, Pin-Jung Liu, Shang-Kok Ng, Cong-Kai Luo, Si-Han Jwo, Chin-Tzu Li, Dai-Yi Hsu, Chia-Chu Fan, Tzu-Tang Wei
O05	Reprogramming the Tumor Microenvironment post-Gold Nanostars-mediated Photothermal Therapy to Improve Colon Carcinoma Therapy in Mouse Model 謝昕樺 , 呂濰廷 , 吳駿一 Hsin-Hua Hsieh, Wei-Ting Lu, Chun-Yi Wu
O06	Melanophilin facilitates pancreatic ductal adenocarcinoma metastasis by inducing primary ciliogenesis 趙鈺瑛 , 林芮綺 , 蘇炳睿 , 王竹安 , 涂庭源 , 侯雅琴 , 蔡翊慈 , 彭怡禎 , 蔡少正 , 沈延盛 , 王家義 Yu-Ying Chao, Ruei Ci Lin, Ping-Jui Su, Chu-An Wang, Ting-Yuan Tu, Ya-Chin Hou, Yi-Tzui Tsai, I-Chen Peng, Shaw-Jenq Tsai, Yan-Shen Shan, and Chia-Yih Wang
O07	Overexpression of histamine-N-methyltransferase as a marker for identifying breast cancer responders to anti-HER2-targeted therapy. 鄭自君 , 杜世興 , 陳莉菁 , 何元順 Tzu-Chun Cheng, Shih-Hsin Tu, Li-Ching Chen, Yuan-Soon Ho
O08	Endosomal Arl4A attenuates EGFR degradation by binding to the ESCRT-II component VPS36 林新晉 , 林明潔 , 劉采蓉 , 蔡岳佐 , 蔡明庭 , 李芳仁 Shin-Jin Lin, Ming-Chieh Lin, Tsai-Jung Liu, Yueh-Tso Tsai, Ming-Ting Tsai, and Fang-Jen S. Lee

中華民國解剖學學會

主題：口頭論文競賽
時間：3 月 24 日 (週日) 10:40-12:10
地點：3 樓，32 教室
主持人：江青樹 秘書長

編號	論文題目
O09	To explore the effect of Interleukin-26 on Lipocalin-2 expression and NLRP3 inflammasome-related pyroptosis in Rheumatoid Arthritis 游秉宸 , 鄭珈毘 Ping-Chen You, Chia-Pi Cheng
O10	以數位空間平台分析胃淋巴上皮樣癌的基因表達和腫瘤微環境 翁郁誠 , 賴逸儒 Yu-Cheng Weng, I-Rue Lai
O11	研究常氧和低氧培養之人類臍帶瓦頓氏凝膠間質幹細胞對晚期肢體缺血大鼠之治療效果 徐兆儀 , 陳天華 , 蕭鎮源 , 徐佳福 , 蔡佩君 Chou-I Hsu, Tien-Hua Chen, Chen-Yuan Hsiao, Jia-Fwu Shyu, Pei-Jiun Tsai
O12	Galectin-3 Expression in Mouse Dorsal Root Ganglia of Streptozotocin-Induced Diabetic Neuropathy 柯慧芳 , 謝松蒼 Hui-Fang Ke, Sung-Tsang Hsieh
O13	Allium Macrostemon Bunge alleviates High Fructose Corn Syrup induced obesity 吳喬莉 , 龔秀妮 Chiao-Li Wu, Hsiu-Ni Kung
O14	Anterior gradient 2 drives resistance to Sorafenib in hepatocellular carcinoma by preventing ferroptosis 吳郁涵 , 陳政義 Yuh-Harn Wu, Cheng-Yi Chen
O15	Comparative Analysis of iPSC and iPSC-Derived RPE Cells in Treating Sodium Iodate-Induced Dry-Type AMD 李霓 [1], 蔡佩君 [1,2,5], 蕭鎮源 [3], 徐佳福 [4], 陳天華 [1,5*] Ni Lee[1] Pei-Jiun Tsai[1,2,5] Chen-Yuan Hsiao[3] Jia-Fwu Shyu[5] Tien-Hua Chen [1,5*]
O16	The Mechanisms of Galectin-7 in Non-Alcoholic Fatty Liver Disease Induced by High Fat Diet 陳哲軒 , 王淑慧 Zhe-Xuan Chen, Shu-Huei Wang
O17	細懸浮微粒 2.5 (PM2.5) 透過 Wnt/β-catenin 和 MAPK 路徑增加膀胱癌細胞的遷移及侵襲能力之影響 鄭詠庭 , 陳忠信 , 黃昭淵 , 龔秀妮 Yung-Ting Cheng, Chung-Hsin Chen, Chao-Yuan Huang, Hsiu-Ni Kung

中華民國免疫學會

主題：口頭論文競賽
時間：3 月 24 日 (週日) 10:50-12:00
地點：1 樓，可勝廳
主持人：莊雅惠 教授、孫昭玲 教授

編號	論文題目
O18	DUSP12 regulates mitochondrial dynamics under oxidative stress-induced cell death by preventing nuclear translocation of death effector AIF in T cells 陳旼 , 楊佳郁 Min Chen, Chia-Yu Yang
O19	Deubiquitinase USP24 Suppresses T cell anti-tumor Activity via Enhancement of PD-1 Protein Stability 謝宏嘉 , 洪建中 , 王憶卿 Hung-Chia Hsieh, Jan-Jong Hung, Yi-Ching Wang
O20	The role of virtual memory CD8+ T cells in pulmonary viral and bacterial infections 李東霖 , 戴琪 , 謝佳勳 , 林志萱 Dong-Lin Li, Chi Tai, Jia-Xun Xie, Jr-Shiuan Lin
O21	The possible immune modulating roles of microbiota during atherosclerosis progression with helminth infections 陳克華 , 趙珮安 , 陳言亭 , 王睿君 , 陳昕瑜 , 林建達 Ko-Hua Chen, Pei-An Chao, Yen-Ting Chen, Jui-Chun Wang, Hsin-Yu Chen, Jian-Da Lin
O22	Critical roles of Serum Amyloid A3 (Saa3) in modulating macrophage conversions and metabolic features 葉育真 , 周姿吟 , 林依蓉 , 連家瑢 , 江忠霖 , 楊辰萱 , 孫懿筠 , 阮雪芬 , 林甫容 , 林建達 Yu-Zhen Ye, Tzu-Yin Chou, I-Jung Lin, Chia-Jung Lien, Chung-Lin Jiang, Chen-Hsuan Yang, Yih-Yun Sun, Hsueh-Fen Juan, Fu-Jung Lin, Jian-Da Lin
O23	Epidermal Blimp-1 deficiency-associated barrier dysfunction and microbial dysbiosis cause atopic dermatitis-like skin inflammation 楊皓文 , 吳彥霏 , 楊士頤 , 林國儀 Hao-Wen Yang, Yen-Fei Wu, Shii-Yi Yang, Kuo-I Lin

台灣分子生物影像學會

主題：口頭論文競賽
時間：3 月 24 日 (週日) 08:00-10:10
地點：2 樓，20 教室

編號	論文題目
O24	Regulation of cofilin phosphorylation by the specific peptide in the lung cancer treatment 林旻穎 , 呂志得 , 吳駿一 , 李易展 Min-Ying Lin, Jyh-Der Leu, Chun-Yi Wu, Yi-Jang Lee
O25	SLC25A11 reprograms energy metabolism and mitochondrial events to promote CCA tumorigenesis and inhibit ferroptosis 葉佳穎 , 張御展 Chia-Ying Yeh, Yu-Chan Chang
O26	Investigating the Versatility of Gold Nanomaterials for Imaging Cartilage Tissue: Transitioning from Single Imaging Modes to Multimodal Imaging Modalities 呂承烝 , 連韋雄 , 巫瑞文 , 林郁涵 , 蘇家豪 , 陳傳霖 , 陳于珊 , 王紹諭 , 陳昭政 , 王逢興 Cheng-Hsiu Lu, Wei-Shiung Lian, Re-Wen Wu, Yu-Han Lin, Chia-Hao Su, Chuan-Lin Chen, Yu-Shan Chen, Shao-Yu Wang, Chao-Cheng Chen, Feng-Sheng Wang
O27	International Application of Lesion Detection on Digital Breast Tomosynthesis: Comparing Western and Eastern Databases 林秉豐 , 湯韻璇 , 陳元琛 , 盧家鋒 Bing-Fong Lin, Yun-Xuan Tang, Yuan-Chen Chen, Chia-Feng Lu
O28	Feasibility Study of Transfer Learning for Automatic Lesion Detection in Digital Breast Tomosynthesis with Traditional Digital Mammography 陳元琛 , 湯韻璇 , 林秉豐 , 盧家鋒 Yuan-Chen Chen, Yun-Xuan Tang, Bing-Fong Lin, Chia-Feng Lu
O29	Improving Adaptability Between Asian And Western Datasets Using Transfer Learning For Lung Nodule Malignancy Prediction 陳俊儒 , 侯貴圓 , 王永成 , 林森炳 , 莫元亨 , 彭世傑 , 盧家鋒 Jyun-Ru Chen, Kuei-Yuan Hou, Yung-Chen Wang, Sen-Ping Lin, Yuan-Heng Mo, Shih-Chieh Peng, Chia-Feng Lu
O30	Investigation of senescence features in overexpression cofilin-1 transgenic mice. 李芳瑜 , 李易展 Fang-Yu Li, Yi-Jang Lee
O31	Exploring bystander effects and the role of EVs in overexpressed cofilin-1 mediated cancer cell behavior 黃鉑涵 , 李易展 Bo-Han Huang, Yi-Jang Lee
O32	Deep Learning-based Automatic Processing Pipeline for Segmentation on Echocardiography in Patients with Left Ventricular Hypertrophy 蘇柏勳 , 郭泠 , 余文鍾 , 盧家鋒 Po-Hsun Su, Ling Kuo, Wen-Chung Yu, Chia-Feng Lu
O33	Macrophage-based gold nanoparticle delivery strategy enhances radiotherapy efficacy in oral cancer-bearing mice 詹惠雯 , 莊惠燕 Hui-Wen Chan, Hui-Yen Chuang

編號	論文題目
O34	Regional Brain Volume Changes over Development in Adolescent Rats Using Magnetic Resonance Imaging. 湯子萱 , 高瑀絜 , 宋映葦 Tzu-Hsuan Tang, Yu-Chieh Kao, Ying-Wei Sung
O35	The Long-term Brain Functional Changes of Early-life Hypoxia 宋映葦 , 高瑀絜 , 楊志豪 , 黃朝慶 , 謝寶育 , 盧家鋒 Ying-Wei Sung, Chih-Hao Yang, Bao-Yu Hsieh, Chao-Ching Huang, Chia-Feng Lu, and Yu-Chieh Jill Kao
O36	Impact of Cannabinoids on Respiratory Health 陳少芃 , 魏子堂 Shao-Peng Chen, Tzu-TangWei

中華民國臨床生化學會

主題：口頭論文競賽
時間：3 月 24 日 (週日) 10:40-12:10
地點：3 樓，31 教室

編號	論文題目
O37	The R-loop Sensing Pathway Orchestrates Inflammatory Responses Driving Cisplatin-Induced Acute Kidney Injury 林承學 , 謝霽安 , 饒梓明 , 李財坤 Cheng-Hsueh Lin, Chi-An Hsieh, Tzu-Ming Jao, Tsai-Kun Li
O38	The Frequencies of KIR Genes and KIR-HLA Pairs in Taiwan 吳韶涵 , 李宜哲 , 陳泓仁 , 沈似紋 , 楊雅倩 Shau-Han Wu, Yi-Che Lee, Hung-Jen Chen, Ssu-Wen Shen, Ya-Chien Yang
O39	Dodeca-2E,4E,8Z,10E,Z-tetraenoic acid isobutylamide Ameliorates Pulmonary Inflammation and Fibrosis through Modulating TGF-β/Smad Signaling Pathway in Mice 紀棨翔 , 邱韋中 , 黃琤 Qi-Xiang Ji, Wei-Chung Chiou, Cheng Huan
O40	Extracellular Matrix-Inspired Biodisintegratable All Hydrogel Biohybrid Neural Interfaces with Synergistic Microelectrode Array Technologies and Cell Therapy 雷琬婁 , 程姿雅 , 彭志維 , 盧懷恩 , 黃薇蓁 Wan-Lou Lei, Tzu-Ya Cheng, Chih-Wei Peng, Huai-En Lu, Wei-Chen Huang
O41	Development of radiolabeled exosome for detection and identification of extra-medullary infiltration in leukemia 劉思顏 , 何宗澧 , 鄭凱鴻 , 游佳瑜 , 胡忠怡 , 周獻堂 , 王美惠 Si-Yen Liu, Chung-Li Ho, Kai-Hung Cheng, Chia-Yu Yu, Chung-Yi Hu, Shiann-Tarng Jou, Mei-Hui Wang
O42	Combination of Platinum-doped Microparticle and Amylopectin-based Gel to Synergize with Radiotherapy for High-grade Glioma 林煒晉 , 梁祥光 , 林峯輝 Jason Lin, Hsiang-Kuang Liang, Feng-Huei Lin
O43	Evaluating the proofreading capability on DNA Polymerase I with Double Mismatch DNA. 張惠嵐 , 徐屾玨 , 蘇剛毅 , 張淑媛 , 方偉宏 Hui-Lan Chang, Chen-Jyue Hsu,Kang-Yi Su, Sui-Yuan Chang,Woei-horng Fang
O44	Serine-21 Phosphorylated EZH2 Enables Delivery via Exosomes to Promote Androgen-Independent Growth in Prostate Cancer 陳家華 , 李財坤 Chia-Hua Chen, Tsai-Kun Li

台灣毒物學學會

主題：口頭論文競賽
時間：3 月 23 日 (週六) 10:00-12:15
地點：2 樓，29 教室
主持人：姜至剛 教授 / 許美鈴 教授

編號	論文題目
O45	Mitigation of Renal Cells Injury and Chronic Kidney Disease Progression through Inhibition of Indoxyl Sulfate-Induced Reactive Oxygen Species-Mediated Ferroptosis 蔡璟葶 , 劉興華 Li-Ting Tsai, Shing-Hwa Liu
O46	Developing cannabinoid receptor 1 targeting PROTAC degrader as a potential cardiovascular protective approach for marijuana-induced endothelial dysfunction 陳少芃 , Niaz Wali, 李宗玄 , 王士維 , 謝俊結 , 魏子堂 Shao-Peng Chen, Niaz Wali, Tzong-Shyuan Lee, Shih-Wei Wang, Jiun-Jie Shie, Tzu-TangWei
O47	Combining Key Characteristic Approach and Cellular Transcriptomics in Analyzing Reproductive Hazard 陳宣廷 , 葉于嘉 , 羅宇軒 Xsuan-Ting Chen, Yu-Jia Yeh, Yu-Syuan Luo
O48	Effects of inter-alpha-trypsin inhibitor heavy chain 4 on microbiome in OVA-induced asthma mouse 劉怡萱 , 莊校奇 Yi-Hsuan Liu, Hsiao-Chi Chuang
O49	Long-term Di-(2-ethylhexyl) phthalate Exposure Reduces Sorafenib Treatment Efficacy by Enhancing Mesenchymal Transition in Hepatocellular Carcinoma 施明煊 , 粟發滿 , 廖宜真 Ming-Syuan Shih, Fat-Moon Suk, Yi-Jen Liao
O50	Tumor targeting and therapeutic assessments of RNA nanoparticles carrying α9-nAChR aptamer and anti-miR-21 in triple-negative breast cancers 廖佑承 , 鄭自君 , 杜世興 , 張榮善 , 郭培宣 , 陳莉菁 , 何元順 * You-Cheng Liao, Tzu-Chun Cheng, Shih-Hsin Tu, Jungshan Chang, Peixuan Guo, Li-Li-Ching Chen, Yuan-Soon Ho*
O51	Arecoline Exposure Increases Stemness Gene Expression in Human Oral Keratinocytes 賴亭羽 , 劉奕宏 , 柯英潔 , 陳玉蓮 , 鄭恩加 , 周昱甫 , 陳培榕 , 李政偉 , 夏興國 , 莊永仁 , 林素芳 Ting-Yu Lai, Yi-Hong Liu, Ying-Chieh Ko, Yu-Lian Chen, Ann-Joy Cheng, Yu-Fu Chou, Peir-Rong Chen, Jeng-Woei Lee, Shine-Gwo Shiah, Yung-Jen Chuang, Su-Fang Lin
O52	NRF2 Promotes Expression and Autophagic Secretion of IL-33, a Danger Signal Cytokine, upon Cisplatin-induced Stress Stimulation 劉薰 , 謝智雄 , 王憶卿 Hsun Liu, Chih-Hsiung Hsieh, Yi-Ching Wang
O53	Utilization of Alternative Test Methods as High-Throughput Toxicity Assessment for Predictive Toxicity Screening of Chemicals in Taiwan 劉淑恩 , 陳容甄 Olivia Lautan, Rong-Jane Chen

中國生理學會

主題：口頭論文競賽
時間：3 月 24 日 (週日) 10:40-12:10
地點：1 樓，第二教室

編號	論文題目
O54	Novel role of NCoR1 in impairing spatial memory via mediation of a novel interacting protein DEC2 鄭光閔 , 徐偉倫 , 馬允立 , 李小媛 Kuang-Min Cheng, Wei-Lun Hsu, Yun-Li Ma, Eminy H.Y. Lee
O55	Deficiency of DNAJB4 disturbs hepatic lipid metabolism and exacerbates hyperlipidemia and atherosclerosis by impairing HSP70/LXRα crosstalk 陳玟樺 , 徐曼甄 , 陳嘉蕙 , 李宗玄 Wen-Hua Chen, Man-Chen Hsu, Chia-Hui Chen, Tzong-Shyuan Lee
O56	ERKhigh-DUSP2low axis mediates the vicious cycle between cancer cells and macrophages in exacerbation of pancreatic cancer metastasis 戴昱菁 , 王竹安 , 蔡少正 Yu-Jing Tai, Chu-An Wang, Shaw-Jenq Tsai
O57	Uncovering the enhancement effect of a novel NMDAR modulator on hippocampus-dependent spatial learning and memory in mice 簡忻晴 , 羅達中 , 石語喬 , 賴文崧 Hsin-Ching Chien, Da-Zhong Luo, Yu-Chiao Shih, Wen-Sung Lai
O58	Mechanistic study with differential Akr1A1 gene expression on mesenchymal stem cell differentiation into adipocytes and osteoblasts 簡伯諺 , 高郁捷 , 林宜慧 , 許蕙麟 , 黃詩晴 , 江振豪 , 劉英明 Bo-Yan Jian, Yu-Chieh Kao, Yi-Hui Lin, Hui-Lin Hsu, Chen-Hao Chiang, Ying-Ming Liou
O59	SPHK1 drives bladder cancer metastasis by inducing Programmed Cell Death 1 Ligand 2 expression 高暐翔 , 廖麗茱 , 陳俞安 , Rey-Chen Pong, Elizabeth Hernandez, Payal Kapur, 陳美智 , 王心怡 , 賴志河 , 謝哲宗 , 林赫 Wei-Hsiang Kao, Li-Zhu Liao, Yu-An Chen, Rey-Chen Pong, Elizabeth Hernandez, Payal Kapur, Mei-Chih Chen, Hsin-Yi Wang, Chih-Ho Lai, Jer-Tsong Hsieh, Ho Lin
O60	Exosomal miR-148a-3p Enhances Radiosensitivity through ITGA5 in Head and Neck Cancer Cells 范皇添 , 李安倫 , 郭泰佑 , 吳坤霖 , 阮氏梅香 , 賴易成 , 鍾道生 , 陳建隆 , 王明華 , 林書夷 , 馬念涵 Hoang-Thien Pham, An-Lun Li, Tai-Yu Kuo, Kun-lin Wu, Mai-Huong Thi Nguyen, Yi-Cheng Lai, Tao-Sang Chung, Chien-Lung Chen, Ming-Hua Wang, Shu-Yi Lin, Nianhan Ma

台灣藥理學會

主題：【研究生論文獎】 口頭決選
時間：3 月 23 日 (週六) 10:00-11:30
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O62	Gastric vagal afferent signaling to the basolateral amygdala mediates anxiety-like behaviors in experimental colitis mice 陳晉豪 , 蔡宗志 , 吳怡真 , 許桂森 Chin-Hao Chen, Tsung-Chih Tsai, Yi-Jen Wu, Kuei-Sen Hsu
O63	FcγRIIB modulates splenic germinal center response against immune subversion during acute influenza A virus infection 吳宇軒 , 張婉婷 , 許家郎 , 呂彥鋒 , 王振泰 , 曾賢忠 Yu-Hsuan Wu, Wan-Ting Chang, Chia-Lang Hsu, Yan-Fong Lu, Jann-Tay Wang, Shiang-Jong Tzeng
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38th 生物醫學聯合學術年會

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AN005	Chronic sleep insufficiency affects dendritic features in mice 何采芸 , 呂宜臻 , 吳志昊 , 李立仁 Tsai-Yun He, Yi-Chen Lu, Chi-Hou Ng, Li-Jen Lee
AN006	Comparison between the therapeutic effects of differentiated and undifferentiated Wharton's jelly mesenchymal stem cells in rats with streptozotocin-induced diabetes 賴詠琳 , 陳天華 , 蕭鎮源 , 徐佳福 , 蔡佩君 Yong-Lin Lai, Tien-Hua Chen, Chen-Yuan Hsiao, Jia-Fwu Shyu, Pei-Jiun Tsai Distribution of the superficial temporal artery in the Chinese adult
AN007	Distribution of the superficial temporal artery in the Chinese adult 賴詠琳 , 陳天華 , 蕭鎮源 , 徐佳福 , 蔡佩君 Yong-Lin Lai, Tien-Hua Chen, Chen-Yuan Hsiao, Jia-Fwu Shyu, Pei-Jiun Tsai
AN008	Diabetes Is the Most Critical Risk Factor of Adverse Complications After Peritoneal Dialysis Catheter Placement 顧佳辰 , 陳天華 , 蕭鎮源 , 徐佳福 , 蔡佩君 Jia-Chen Gu, Tien-Hua Chen, Chen-Yuan Hsiao2, Jia-Fwu Shyu, Pei-Jiun Tsai
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AN015	Effects of bisphenol A (BPA) on immune tolerance of trophoblast using mixed lymphocyte reaction (MLR) model 劉郡 , 林姵廷 , 陳蓉安 , 鄭珈毘 , 林谷峻 , 藍心婕 Jun Liu, Yi-Ting Lin, Jung-An Chen, Chia-Pi Cheng, Gu-Jiun Lin, Hsin-Chieh Lan
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AN019	Nerve decompression enhances GABAergic control of pain circuit in the spinal cord for attenuating chronic constriction injury-induced neuropathic pain 楊雨蓉 , 陳沂筠 , 陳彥綸 , 朱培銘 , 陳欽昶 , 曾拓榮 Yu-Jung Yang, Yi-Yun Chen, Yan-Lun Chen, Pei-Ming Chu, Chin-Chang Chen, To-Jung Tseng
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AN021	Variations of the Cystic Artery in Chinese Adults 莊艾霖 [1], 陳天華 [1,5], 蕭鎮源 [2], 徐佳福 [3], 蔡佩君 [1,4*] Ai-Lin Cuang[1], Tien-Hua Chen [1,5], Chen-Yuan Hsiao[2], Jia-Fwu Shyu[3], Pei-Jiun Tsai [1,4*]
AN022	Courses of the Axillary and Radial Nerves Differ Between Chinese and Caucasians 莊艾霖 , 陳天華 , 蕭鎮源 , 徐佳福 , 蔡佩君 Ai-Lin Cuang, Tien-Hua Chen, Chen-Yuan Hsiao, Jia-Fwu Shyu, Pei-Jiun Tsai

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AN027	Anatomic study of vaginal width in male-to-female transsexual surgery 洪于雯 , 陳天華 , 蕭鎮源 , 徐佳福 , 蔡佩君 Yu-Wen Hung, Tien-Hua Chen, Chen-Yuan Hsiao, Jia-Fwu Shyu, Pei-Jiun Tsai
AN028	Developmental expression pattern of Schizophrenia candidate genes from Voxel and Vertex-wise Genome-Wide Association study (VGWAS) in mouse cortex 蔡映月 , 侯珮珊 Jamie Chua, Hou Pei-shan
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AN031	Rapid Antidepressant-like Effect through mTOR Signaling Pathway Induced by Echinacoside in Prefrontal Cortex 莊涵雯 , 王則硯 , 黃智佳 , 蔡孟宏 , 魏一華 Han-Wen Chuang, Tse-Yen Wang, Chih-Chia Huang, Mang-Hung Tsai, I-Hua Wei
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AN034	CHPF regulates Marcopinocytosis in breast cancer through modulating Syndecan-1 expression 黃映瑋 , 顏宏融 , 廖玟潔 , 蘇盈嫒 , 蕭琪 , 周毓倫 , 施秉庚 , 劉炯輝 Ying-Wei Huang, Hung-Rong Yen, Wen-Chieh Liao, Ying-Ai Su, Chi Hsiao, Yu-Lun Chou, Pin-Keng Shih, Chiung-Hui Liu
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AN037	Role of glutamate transporter in the progression from amyloidosis to tauopathy in Alzheimer's disease 蔡珮瀅 , 蔡昇峰 , 郭余民 Pei-Ying Tsai, Sheng-Feng Tsai, Yu-Min Kuo
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AN039	Assessment of functional outcomes after distal middle cerebral artery occlusion in mice 吳敏瑜 , 許鍾瑜 Min-Yu Wu, Jung-Yu C. Hsu
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AN050	Creating an innovative 3D bioprinting approach for the production of pre-vascularized human bone organoids. 朱慈暉 , 羅友志 , 江青樹 , 黃恩翰 , 王宣薳 , 王耀群 , 徐昕妤 , 黃辰鏞 , 徐佳福 Tzu-Hui Chu, Yu-Chih Lo, Cing-Shu Jiang, En-Han Huang, Hsuan-Hsuan Wang, Yao-Chuan Wang, Hsin-Yu Hsu, Cheng-Yong Huang, Jia-Fwu Shyu
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AN056	Anti-Oxidants and Anti-Aging activities of Salvia miltiorrhiza Bunge Callus Extracts in Wharton's Jelly Mesenchymal Stem Cell (WJMSCs) and Human Dermal Fibroblast Cells (HDFs) Masooma Haider1,7 黃襄川 [1], 郭薇雯 [1,2*], 黃志揚 [3,4,5,6,7*] Masooma Haider[1,7],Shang-Chuan Ng[1],Wei-Wen Kuo[1,2*],Chih-Yang Huang[3,4,5,6,7*]
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AN062	Impact of chronic sleep insufficiency on heterozygous Disc1 mutant mice 呂宜臻 , 何采芸 , 吳志昊 , 李立仁 , 李俊賢 Yi-Chen Lu, Tsai-Yun He, Chi-Hou Ng, Li-Jen Lee, Lukas Jyuhn-Hsiarn Lee
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MI-P01	Intratumoral Injection Of Sustained-Release Nano-Tio2 Gel Combined With Radiotherapy Effectively Controls The Growth Of Glioblastoma 鞠佩恩 , 梁祥光 Pei-An Chu, Hsiang-Kuang Tony Liang
MI-P02	Cerebral hypoperfusion in post-COVID-19 revealed by [^{99m}Tc]ECD SPECT/CT 葉信顯 , 陳穎柔 , 唐士恩 , 劉佳鑫 , 邱創新 Skye Hsin-Hsien Yeh, Ing-Jou Chen, Shin-En Tang, Chia-Hsin Liu, Chuang-Hsin Chiu
MI-P03	Investigating the impact of Losartan on radiosensitivity and associated mechanisms in colorectal cancer cells 蔡宜蓁 , 莊惠燕 Yi-Chen Tsai, Hui-Yen Chuang
MI-P04	The evaluation of Wharton's jelly mesenchymal stem cell exosomes as a therapeutic intervention in the 5xFAD mouse model of Alzheimer's disease 劉思顏 , 何宗澧 , 鄭凱鴻 , 詹振勳 , 游佳瑜 , 謝秀梅 , 王美惠 , 林奏延 Si-Yen Liu, Chung-Li Ho, Kai-Hung Cheng, Chen-Hsin Chan, Chia-Yu Yu, Hsiu-Mei Hsieh, Mei-Hui Wang, Tzou-Yien Lin
MI-P05	Radiation-induced CD97 modulates ferroptosis cell death in liver cancer 李芝宜 , 江政佑 , 劉欣怡 Chih-I Lee, Zheng-You Jiang, Shin-Yi Liu
MI-P06	The impact of transferrin receptor on radiation responses in liver cancer and normal hepatocytes 江政佑 , 李芝宜 , 劉欣怡 Zheng-You Jiang, Chih-I Lee, Shin-Yi Liu
MI-P07	Regulation of pre-replicative complex by cofilin for DNA synthesis, repair and radiosensitivity. 王子欣 , 李易展 Tzu-Hsin Wang, Yi-Jang Lee
MI-P08	β-caryophyllene enhances radiotherapy efficacy through PPARγ-mediated apoptosis in colorectal cancer cells 詹惠雯 Hui-Wen Chan, Hui-Yen Chuang
MI-P09	Evaluating the Effectiveness of Sertoli Cells and DuraGen Patches in Traumatic Brain Injury Repair Using Positron Emission Tomography 曾路加 , 張廷宇 , 鄭澄意 , 陳元皓 , 馬國興 Lu-Chia Tseng, Ting-Yu Chang, Cheng-Yi Cheng, Yuan-Hao Chen,Kuo-Hsing Ma
MI-P10	Radiation-modulated M1 macrophage polarization and enhanced phagocytosis against triple negative breast cancer cells 郭翰錫 , 張御展 , 莊惠燕 Han-Hsi Kuo, Yu-Chan Chang, Hui-Yen Chuang

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MI-P12	Adaptation mechanism and therapeutic efficacy underline neuronal receptors in ovariectomized rat model 黃文盛 , 郭諭燁 , 張剛偉 , 馬國興 , 葉信顯 Wen-Sheng Huang, Yu-Yeh Kuo, Kang Wei Chang, Kuo-Hsing Ma, Skye Hsin-Hsien Yeh
MI-P13	Measurement of activated microglia associated MDMA-induced immunosuppression by [^{18}F]FEPPA PET/MR 葉信顯 , 陳穎柔 , 黃文盛 , 游宗勳 , 馬國興 , 邱創新 Skye Hsin-Hsien Yeh, Ing-Jou Chen, Wen-Sheng Huang, Tsung-Hsun Yu, Kuo-Hsing Ma, Chuang-Hsin Chiu
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MI-P15	2023 Evaluation of Human Biodosimetry 廖澤蓉 , 陳冠因 , 蔡宜樺 , 盧安祺 , 張穎熏 , 張志賢 Tse-Zung Liao, Kuan-Yin Chen, Yi-Hua Cai, An-Chi Lu, Ying-Hsun Chang, Chih-Hsien Chang
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MI-P18	Dual-time-point FDG PET/CT for differentiating COVID-19 vaccination induced lymphadenopathy from metastasis in patients with breast cancer 楊舒雅 , 常傳訓 , 楊辰恩 , 劉仁賢 Shu-Ya Yang, Chuan-Hsun Chang, Chen-En Yang, Ren-Shyan Liu
MI-P19	The impact of elevated glucose levels on oral squamous cell carcinoma progression 蘇子芳 , 鍾以庭 , 劉志輝 , 柯建志 , 謝雅茹 Zi-Fang Su, Yi-Ting Chung, Chih-Hui Liu, Chien-Chih Ke, Ya-Ju Hsieh
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MI-P23	Radiosynthesis of a novel Fluorine-18 labeled FAPI for PET imaging 張瑋岷 , 陳傳霖 Wei-Min Zhang, Chuan-Lin Chen
MI-P24	運用正子造影技術評估魚藤酮誘發之帕金森氏症小鼠腦部 α- 突觸核蛋白聚集之再現性 李紜漪 , 馬國興 , 葉信顯 , 邱創新 , 陳建甫 Yun-Yi Lee, Kuo-Hsing Ma, Skey Hsin-Hsien Yeh, Chuang-Hsin Chiu, Chien-Fu F. Chen
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BC002	Methyltransferase 14 mediates mRNA transcriptional stability in metabolism and autophagy to prevent CD4+ T cell-induced kidney injury in type 1 diabetes mellitus 林佑融 , 王仲興 , 黃宇男 , 黃志揚 Yu-Jung Lin, Chung-Hsing Wang, Yu□Nan Huang, Chih-Yang Huang
BC003	Development of anti-CD73 Antibody for Cancer Immunotherapy 李俊忠 , 洪振傑 , 陳思瑜 , 駱育壎 , 蔡顯裕 , 蔡佩宜 , 楊宗杰 , 陳巧文 , 廖助彬 Chun-Chung Lee, Chen-Jei Hong, Sih-Yu Chen, Yu-Hsun Lo, Hsien-Yu Tsai, Pei-Yi Tsai, Tzungjie Yang, Chiao-Wen Chen, Chu-Bin Liao
BC004	Tumor metabolite-derived lactate tumor microenvironment induces LCN2 expression to promote bladder cancer progression 游詩瑜 , 李育誠 Shih-Yu Yu, Yu-Cheng Lee
BC005	Chemical Intervention in SUPT4H/SUPT5H Complex Formation to Improve Huntington's Disease-Related Phenotypes 吳昀芸 , 鄧甯 , 封雅栩 , 謝文傑 , 宋政勳 , 林妤軒 , 曾雅嫻 , 廖婉竹 , 朱逸凡 , 劉育丞 , 張恩誠 , 劉珈榮 , 許世宜 , 蘇銘燦 , 郭紘志 , 史坦恩 , 鄭子豪 Yun-Yun Wu, Ning Deng, Yanan Feng, Wen-Chieh Hsieh, Jen-Shin Song, Yu-Shiuan Lin, Ya-Hsien Tseng, Wan-Jhu Liao, Yi-Fan Chu, Yu-Cheng Liu, En-Cheng Chang, Chia-Rung Liu, Sheh-Yi Sheu, Ming-Tsan Su, Hung-Chih Kuo, Stanley N Cohen, Tzu-Hao Cheng
BC006	Potential of afatinib in managing keloid cell proliferation: Understandings derived from studies on cell growth and cell motility 吳敏華 , 王毓芬 , 楊蕙如 , 陳達人 Min-Hua Wu, Yu-Fen Wang, Hui-Ju Yang, Dar-Ren Chen
BC007	Detecting Chemical Agent Binding to SUPT4H/SUPT5H-NGN Protein Complex via Localized Surface Plasmon Resonance (LSPR) 張議中 , 馮可欣 , 蔡耿彰 , 鄭子豪 Yi-Chung Chang, Ker-Shin Foong, Keng-Chang Tsai, Tzu-Hao Cheng
BC008	Hunting mycobacterial surface glycan binding proteins from phages Sunil Kumar Tewary[1], Jian-Li Wu[1], Li-An Tsai[1,3], Jitendra Maharana[1], Hsiung[2], Lourriel S. Macale1 Ronelito J. Perez[1], Todd L. Lowary[1,3] and Meng-Chiao Ho[1,2]
BC009	Collagen-rich tumor microenvironment promotes bladder cancer progression via COL1/DDR1-ANXA6 signaling axis 李嘉豐 , 李育誠 Chia-Feng Lee, Yu-Cheng Lee
BC010	Characterization of a Novel SUMO E3 Ligase and its Variant on the Proteostasis of ATXN3 張奕晴 , 蔡耀洲 , 張恩誠 , 徐語謙 , 黃依如 , 蔡毓舜 , 李宜中 , 廖翊筑 , 蘇銘燦 , 楊永正 , 陳儀莊 , 宋秉文 , 鄭子豪 Yi-Ching Chang, Yao-Chou Tsai, En-Cheng Chang, Yu-Chien Hsu, Yi-Ru Huang, Yu-Shuen Tsai, Yi-Chung Lee, Yi-Chu Liao, Ming-Tsan Su, Ueng-Cheng Yang, Yijuang Chern, Bing-Wen Soong, Tzu-Hao Cheng

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BC012	DDX3 is a biomarker for metastatic breast cancer through regulating mitochondrial metabolism. 徐銘謙 , 許文瀞 , 林政緯 Ming-Chien, HSU, Wen-Jing, HSU, Cheng-Wei, LIN
BC013	Study the Effects of Energy 5 Therapy Device on Human Monocytic Cell Line 王仰崑 , 許心華 , 謝天渝 , 黃莉文 , 張基隆 Yang-Kung Wang, Hsin-Hua Hsu, Tien-Yu Shieh, Li-Wen Huang, Kee-Lung Chang
BC014	Study on the effects and molecular mechanisms of the combination of S-Equol and Vitamin K2 (MK-7) on lessening osteoarthritis 黃姿菁 , 謝寶萱 , 黃莉文 , 鄭筱翎 , 邱溥容 , 胡祐甄 , 張基隆 Tzu-Ching Huang, Bau-Shan Hsieh, Li-Wen Huang, Hsiao-Ling Cheng, Pu-Rong Chiu, Yu-Chen Hu, Kee-Lung Chang
BC015	Preparation of a native-formed G protein-coupled receptor for murine immunization using a detergent-refolding method 俞惠潔 , 柯文斌 , 王美蘋 , 蔡孟庭 , 廖助彬 Hui Chieh Yu, Wen Bin Ke, Mei Ping Wang, Meng Ting Cai, Chu Bin Liao
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BC019	Identifying key residues in intrinsically disordered regions of proteins using machine learning 黃介嶸 Jie-rong Huang
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BC024	Prospect Analysis of Compound Pharmacy Chains 林財得 謝孟志 Tsai-Te Lin Meng-Jyh Shieh
BC025	Exploration of Human Mitochondrial NAD(P)+-Dependent Malic Enzyme 2 in the Metabolic Reprogramming of Multiple Myeloma 林怡君 , 洪慧芝 Yi-Chun Lin, Hui-Chih Hung
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BC027	去磷酸化靶向嵌合體：靶向蛋白質去磷酸化的新策略 陳昱佑 , 李彥君 , 陳伯翰 Yu-Yu Chen, Yen-Chun Lee, Po-Han Chen
BC028	Investigating proteolytic and chaperone activities of LonA 范耘生 , 陳芷菁 , 許佳嫈 , 曾秀如 Yun-Sheng Fan, Chih-Ching Chen, Chia-Ying Hsu, Shiou-Ru Tzeng
BC029	The improvement of cold tolerance in mung bean seedlings by iterative hydrogen peroxide pretreatment is mediated through the increase of reactive oxygen species scavenging capacity. 張喬茵 , 祝偉銓 , 王柏鈞 , 鄧芝盈 , 蘇子云 , 游志文 , 洪淑嫻 Chiao-Yin Chang, Wei-Quan Zhu, Bo-Jun Wang, Chih-Ying Teng, Zi-Yun Su, Chih-Wen Yu, Shu-Hsien Hung
BC030	Hsp27-mediated ubiquitination machinery governs mesenchymal stromal cell lineage commitment in matrix mechanics 吳旻璁 , 黃冠霖 , 陳胤全 , 卓冠宇 , 郭津岑 Ming-Chung Wu, Guan-Lin Huang, Yin-Quan Chen, Guan-Yu Zuo, Jean-Cheng Kuo
BC031	Molecular insights into homodimer disassembly and DNA methylation defects caused by the ICF syndrome mutations in human DNMT3B 卓昭成 , 費正尹 , 江柏辰 , 楊維仁 , 袁小琦 Chao-Cheng Cho, Cheng-Yin Fei, Bo-Chen Jiang, Wei-Zen Yang, Hanna S. Yuan
BC032	Characterization of N-cadherin in 3D-microenvironment during cancer metastasis 蔣宛諭 , 王博文 , 曾炳輝 , 郭津岑 Wan Yu Chiang, Bo-Wen Wang, Ping-Hui Tseng, Jean Cheng Kuo

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BC034	Loss of centrosome affects cytoskeletal dynamics and mesenchymal stem cells fate decision 尤文心 , 蔡毓順 , 楊永正 , 郭津岑 Helen Wenshin Yu, Yu-Shuen Tsai,Ueng-Cheng Yang, Jean-Cheng Kuo
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BC036	探討間質幹細胞中 Rho 小 GTP 酶活性因應細胞外微環境調節的細胞內張力與分化的調控 黃冠霖 , 陳胤全 , 郭津岑 Huang Guan-Lin, Chen Yin-Quan, Kuo Jean-Cheng
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BC038	MECHANISTIC INSIGHTS INTO THE INTERPLAY BETWEEN HISTONE MODIFICATIONS AND DNA METHYLATION BY HUAMN DNMT3B 江柏辰 , 卓昭成 , 黃薰禾 , 楊維仁 Bo-Cheng Jiang, Chao-Cheng Cho, Hsun-Ho Huang, Wei-Zen Yang
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BC044	The role of SMARCA2 (BRM) subunit of SWI/SNF/BAF complex in cortical development. 賴湘依 , 蔡金吾 Hsiang-Yi Lai, Jin-Wu Tsai

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BC047	Neuronal Cell Type-Specific Dysregulation of NRF2-Mediated Anti-Oxidative Pathway in Huntington's Disease: An Isogenic iPSC Model Study 廖婉竹 , 曾雅嫻 , 林妤軒 , 邱鳳蘭 , 郭紘志 , 鄭子豪 Wan-Jhu Liao, Ya-Hseng Tseng, Yu-Shiuan Lin, Feng-Lan Chiu, Hung-Chih Kuo, Tzu-Hao Cheng
BC048	Gallic acid improves diabetic endothelial inflammation and apoptosis by inhibiting NF-κB pathway regulating miR-199a-3p 蔡詠哲 , 陳璟賢 , 游孟勳 , 吳玟諭 , 王朝鐘 Yung-Che Tsai, Jing-Hsien Chen, Meng-Hsun Yu, Wen-Yu Wu, Chau-Jong Wang
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BC050	Tricyclic Antidepressants Elevate chemo-sensitivity in T-cell Acute Lymphoblastic Leukemia 蕭依信 , 洪慧芝 I-Hsin Hsiao, Hui-Chih Hung
BC051	Establishment of anti-TMPRSS2 neutralizing antibody 蔡誠陽 , 李明學 Cheng Yang Tsai, Ming-Shyue Lee
BC052	Low ALDH2 Levels Linked to Poor Outlook and Drug Resistance in Colon Cancer 黃博群 , 鄭緒宏 , 李承錦 , 張育嘉 , 黃千瑜 Po-Chun Huang, Xu-Hong Zheng, Cheng-Chin Lee, Yu-Jia Chang, Chien-Yu Huang
BC053	N-acetylcysteine modulates renal gluconeogenesis in diabetic nephropathy. 陳靜君 , 王朝鐘 , 李慧禎 Ching-Chun Chen, Chau-Jong Wang, Huei-Jane Lee
BC054	Supt4h Is Essential To Sustain Emotional Memory By Modulating The Expression Of Genes Associated With Glutamatergic Receptor In The Basolateral Amygdala 李珮寧 , 林芳羽 , 顏裕庭 , 薛一蘋 , 黃怡萱 , 鄭子豪 Pei-Ning Li, Fang-Yu Lin, Yu-Ting Yan, Hsueh, Yi-Ping, Yi-Shuian Huang, Tzu-Hao Cheng
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BC057	Prompt screening of xenobiotic response element-associated metabolic genes to estimate transcription-dependent cell-specific regulation 林子欽 , 湯子萱 , 許婷雅 , 林晨芳 , 張欣怡 , 詹凱群 , 朱清良 , 尤仁音 Tzu-Chin Lin, Tzu-Hsuan Tang, Ting-Ya Hsu, Chen-Fang Lin, Hsin-Yi Chang, Kai-Chun Chan, Ching-Liang Chu, Ren-In You
BC058	The hedgehog pathway in hepatocellular carcinoma promotes macrophage recruitment for metastasis. 朱霈涵 , 許祐輔 , 張瓊方 , 曾炳輝 Pei-Han Chu, Yu-Fu Hsu, Chiung-Fang Chang, Ping-Hui Tseng
BC059	Identification of TTBK2 as a Therapeutic Target for SHH-type Medulloblastoma 鄭宇雯 , 吳承儒 , 林宜璇 , 王琬菁 , 蔡金吾 Yu-Wen Cheng, Cheng-Ru Wu, I-Hsuan Lin, Won-Jing Wang, Jin-Wu Tsai
BC060	Investigation of The Serotype Prevalence of Clinical Pseudomonas aeruginosa Strains Causing Healthcare-Associated Infection in Taiwan and Their Susceptibility to Pyocins 許文通 , 張堯凱 , 陳盈璁 , 陳詩允 , 余志強 , 胡念仁 , 黃建文 Wen-Tong Xu, Yao-Kai Chang, Ying-Tsong Chen, See-Yeun Ting, Tze-Kiong Er, Nien-Jen Hu1, Chien-Wen Huang
BC061	ALDH2 Downregulation Facilitates Tumor Progression and Correlates with Infiltration of Immune Cells in Colon Cancer 鄭緒宏 , 黃博群 , 李承錦 , 張育嘉 , 黃千瑜 Xu-Hong Zheng, Po-Chun Huang, Cheng-Chin Lee, Yu-Jia Chang, Chien-Yu Huang
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BC063	Role of methyltransferase SMYDx in prostate cancer cell progression and resistant to anti-androgen drugs treatment 軒毓琦 , 黃晨銨 , 李明學 Yu-Chi Hsuan, Chen-An Huang, Ming-Shyue Lee
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BC065	Unveiling CryoEM structure of Flower, a dual-activity Ca2+ channel 李家興 , 何孟樵 , 姚季光 Chia-Hsing Lee, Meng-Chiao Ho, Chi-Kuang Yao

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BC066	Using an MS-based platform to screen for small molecule inhibitors of SARS-CoV2 main protease 李采珍 , 林照雄 Tsai-Chen Lee, Chao-Hsiung Lin
BC067	Role of calcium-mediated signaling in the neural immaturity and synaptic plasticity abnormality of iPSC-derived cortical neurons from MERRF patients 吳雨亭 , 廖曉慧 , 魏耀揮 * Yu-Ting Wu, Hsiao-Hui Liao, Yau-Huei Wei*
BC068	r-TuRC Regulates Kinesin Superfamily Protein 2A(Kif2A)-Dependent Microtubule Depolymerizing Activity 黃于衡 , 陳博邦 , 夏國強 Yu-Heng Huang, Po-Pang Chen, Kuo-Chiang Hsia
BC069	Reconstitution of PCM scaffold of the interphase centrosome provides insights into its architecture and function 曾榆婷 夏國強 Yu-Ting,Tseng Kuo-Chiang,Hsia
BC070	Investigating The Role Of Codon Bias In Spatial Gene Expression Regulation In Human Cells 梁浩文 , 余建泓 Hao-Wen Liang, Chien-Hung Yu
BC071	Exploring the pattern and predictive power of serum metabolites in patients with physio-cognitive decline syndrome (PCDS) 蔡馥如 , 黃義龍 , 彭莉甯 , 陳亮恭 , 林照雄 Fu-Ju Tsai, Yi-Long Huang, Li-Ning Peng, Liang-Kung Chen, Chao-Hsiung Lin
BC072	Mechanistic Validation of the Substrate Specificity in Enzymatic Glycosylation as Predicted by BT&D2 AI Analysis System 賴靖蓉 , 許書瀚 , 林天慈 , 蔡侑達 , 陳申霖 , 邱顯泰 Jing-Rong Lai, Shu-Han Xu, Tien-Tzu Lin, You-Da Tsai, Shen-Lin Chen, Hsien-Tai Chiu
BC073	Prediction and Characterization of Anti-Cancer Types and Associated Side Effects of Drugs by BT&D2 Medical and Pharmaceutical R&D System 蔡侑達 , 許書瀚 , 苑哲維 , 邱顯泰 You-Da Tsai, Shu-Han Xu, Che-Wei Yuan, Hsien-Tai Chiu
BC074	Cloning and Characterization of Gluconobacter oxydans Cephalosporin acylase Kim Ngoc Ha, 吳思霈 , 黃贊勳 Kim Ngoc Ha, Szu-Pei Wu, Tzann-Shun Hwang
BC075	Epigenetic regulator RNF20 underlies temporal hierarchy of gene expression to regulate postnatal cardiomyocyte polarization 林佳葉 , 張耀明 , 曾心怡 , 施燕玲 , 葉筱慧 , 廖宥婇 , 唐漢軒 , 許家綾 , 陳建璋 , 顏裕庭 , 高承福 Chia-Yeh Lin, Yao-Ming Chang, Hsin-Yi Tseng, Yen-Ling Shih, Hsiao-Hui Yeh, You-Rou Liao, Han-Hsuan Tang, Chia-Ling Hsu, Chien-Chang Chen, Yu-Ting Yan, Cheng-Fu Kao
BC076	Suppressing c-FOS expression by G-quadruplex ligands inhibits osimertinib-resistant non-small cell lung cancers 呂愷 , 王星喬 , 涂易貞 , 張健忠 , 婁培人 , 張大釗 , 林敬哲 Kai Lu, Hsin-Chiao Wang, Yi-Chen Tu, Cheng-Chung Chang, Pei-Jen Lou, Ta-Chau Chang, Jing-Jer Lin

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BC077	N-Formimidoylation/-iminoacetylation modification in aminoglycosides requires FAD-dependent and ligand-protein NOS bridge dual chemistry 王詠霖 , 張晉源 , 許甯翔 , 羅宜雯 , 林冠宏 , 陳俊良 , 張七鳳 , 王哲充 , 小笠原泰志 , 大利徹 , 丸山千登勢 , 濱野吉十 , 李宗璘 Yung-Lin Wang, Chin-Yuan Chang, Ning-Shian Hsu, I-Wen Lo, Kuan-Hung Lin, Chun-Liang Chen, Chi-Fon Chang, Zhe-Chong Wang, Yasushi Ogasawara, Tohru Dairi, Chitose Maruyama, Yoshimitsu Hamano, Tsung-Lin Li
BC078	Investigating the role of protein phosphorylation in regulating apoptosis of senescent cells 何書妤 , 丁歡愉 , 王星喬 , 林敬哲 Shu-Yu Ho, Huan-Yu Ting, Hsin-Chiao Wang, Jing-Jer Lin
BC079	Functional roles of ERCC4 in DNA repair during cerebellum development 陳詩晴 , 劉祐岑 , 蔡金吾 Shih-Ching Chen, Yo-Tsen Liu, Jin-Wu Tsai
BC080	ACE2 and a Traditional Chinese Medicine Formula NRICM101 Could Alleviate the Inflammation and Pathogenic Process of Acute Lung Injury 林承翰 , 陳怡洳 , 張賀如 , 楊欣瑞 , 林孟韋 , 林志生 Cheng-Han Lin, Yi-Ju Chen, Ho-Ju Chang, Xin-Rui Yang, Meng-Wei Lin, Chih-Sheng Lin
BC081	Establishment of a real-time NanoBiT pseudovirus system for evaluating the inhibitory efficacy of virus infection on the interaction between human angiotensin-converting enzyme 2 (hACE2) and viral spike protein 楊欣瑞 , 林承翰 , 林孟韋 , 張賀如 , 林志生 Xin-Rui Yang, Cheng-Han Lin, Meng-Wei Lin, Ho-Ju Chang, Chih-Sheng Lin
BC082	The role of DUSP6 in oral cavity squamous cell carcinoma progression 張益誠 , 楊佳郁 Yi- Cheng Zhang, Chia-Yu Yang
BC083	Chromium (CrIII) based-compound induces apoptosis in osteosarcoma cancer through suppressing AKT/GSK3 signaling pathway Hema Sri Devi, Wei-Wen Kuo, Yu-Jung Lin, Chih-Yang Huang PhD Hema Sri Devi, Wei-Wen Kuo, Yu-Jung Lin, Chih-Yang Huang PhD1
BC084	Using Matriptase Knockout to Investigate The Roles of Matriptase, Prostasin and Their Inhibitors in Colorectal Cancer 黃筑琪 , 陳昭仰 , 胡哲銘 , 王正康 Jhu Ci Huang, Chao Yang Chen, Je Ming Hu, Jehng Kang Wang
BC085	Investigation of metal coordination geometry in proteins 林耕宇 , 辛坤鎰 Geng-Yu Lin, Kun-Yi Hsin
BC086	Therapeutic Targeting of Dihydroorotate Dehydrogenase (DHODH) in Neuroblastoma: Modulating Lipid Metabolism and Ferroptosis 石睿嘉 , 郭泉浩 , 謝巧慧 , 張心儀 , 黃晨豪 , 徐駿森 , 黃宣誠 , 阮雪芬 Jui-Chia Shih, Chuan-Hao Kuo, Chiao-Hui Hsieh, Hsin-Yi Chang, Chen-Hao Huang, Chun-Hua Hsu, Hsuan-Cheng Huang, Hsueh-Fen Juan
BC087	Exploring the binding affinity and inhibition of the SARS-CoV-2 nucleic acid binding protein Nsp9 by multiple FDA approved drugs 蔡葳楷 , 黃晟洋 Cai, Wei-Kai, Huang, Cheng-Yang

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BC089	Antrodin B suppressed melanoma growth by induction of apoptosis based on microRNAs 許卉嫘 , 張雲菁 Hui-En Hsu, Yun-Ching Chang
BC090	The vimentin K282N variant promotes cell migration 何欣潔 , 陳怡璇 , 張軒嘉 , 陳鴻震 Hsin-Chieh Ho, Yi-Hsuan Chen, Hsuan-Chia Chang, Hong-Chen Chen
BC091	Investigating the Role of TGM2 in DNA-PKcs-mediated Repairing of DNA Breaks in Senescence 蘇育廷 , 謝錫賢 , 林敬哲 Yu-Ting Su, Hsi-Hsien Hsieh, Jing-Jer Lin
BC092	Kindlin-2, a candidate biomarker for TBI prognosis prediction identified from patient blood samples and mouse brains Koama D. Gilles, 楊文賓 , 陳凱筠 , 楊志豪 , 莊健盈 Koama D. Gilles, Wen-Bin Yang, Chih-Hao Yang, Kai-Yun Chen, Jian-Ying Chuang
BC093	Apabetalone Has The Potential To Inhibit Oxidative Stress Induced By Interleukin-1 beta In Primary Chondrocytes 陳慧瑜 , 王誌謙 , 彭奕仁 Hui-Yu Chen, Chih-Chien Wang, Yi-Jen Peng
BC094	Anti-cataract Effect of a Traditional Chinese Medicine, Chrysanthemum Combination, in a Zebrafish Model 李宜庭 , 簡尹貞 , 呂秉勳 , 陳曜鴻 Yin-Chen Chien, I-Ting Lee, Ping-Hsun Lu, Yau-Hung Chen
BC095	Investigation of the Effects of HDL-Induced Arginase I Expression on M1 Macrophages 吳宣慧 , 林韋伶 Shuan-Hui Wu, Wei-Ling Lin
BC096	Application of Data Mining and Machine Learning Approaches for Molecular Bioactivity Analysis 吳佩璇 , 辛坤鎰 Pei-Hsuan Wu, Kun-Yi Hsin
BC097	A portable and affordable cryo-EM sample preparation device 林承威 , 羅世奇 , 何孟樵 Cheng-Wei Lin, Shih-Chi Luo, Meng-Chiao Ho
BC098	香芹酚改善脂毒性引起的心肌細胞程序性死亡 王芷筠 , 陳靜宜 , 林原佑 * Chih-Yun Wang, Ching-Yi Chen, Yuan-Yu Lin*

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BC099	Identification of a novel transcriptional regulator of the next generation immune checkpoint Siglec-15 邱俊能 , 陳歆宜 , 李思碩 , 黃耀燊 , 徐采蘩 , 阮玄妝 , 紀欣慧 , 熊恩 , 王瑟武 , 張耀明 , 安形高志 , 李家偉 , 袁維謙 , 李育儒 * Chun-Nen Chiu, Hsin-Yi Chen, Szu-Shuo Lee, Yao-Shen Huang, Tsai-Fan Hsu, Trang Thi Huyen Nguyen, Hsin-Hui Chi, En Hsiung, Thu-Thuy Vu, Yao-Ming Chang, Takashi Angata, Chia-Wei Li, Wei-Chien Yuan, Yu-Ru Lee*
BC100	From Droplet Formation to Fibril Formation: Unveiling the Influence of Phosphorylation in Liquid-Liquid Phase Separation Mohammadreza Allahyartorkaman, Yi-An Chen, 嚴欣勇 , 管永恕 , 陳佩燁 Mohammadreza Allahyartorkaman, Yi-An Chen, Hsin-Yung Yen, Yung-Shu Kuan, Rita P-Y Chen
BC101	The Role of Perivascular Adipose Tissue in the Development of Atherosclerosis under Uremic Conditions 張芳瑜 , 楊翔宇 , 黃世明 CHANG FANG YU, Hsiang-Yu Yang, Shih-Ming Huang
BC102	To explore the proteomic changes of young plasma transfusion in the recovery of traumatic brain injury mice 陳玟臻 , 張維哲 , 陳筱葳 , 黃國正 , 陳怡婷 Wen-Chen Chen, Wei-Che Chang, Hsiao-Wei Chen, Guo-Jen Huang, Yi-Ting Chen
BC103	An RNase H-assisted Probe for In-frame Deletion Detection 洪榭薇 , 楊佳寧 Hsieh-Wei Hung, Chai-Ning Yang
BC104	Examining Metabolic Memory Signatures in Genomewide DNA Methylation in Diabetes 林冠均 , 陳盈蓁 , 郭俸志 , 陳柏仰 Guan-Jun Lin, Ying-Chen Chen, Feng-Chih Kuo, Pao-Yang Chen
BC105	探討局部麻醉劑刺激軟骨細胞後加入維生素 C 的影響能力 趙宏軒 / 黃世明 Hung-Hsuan-Chao, Shih-Ming-Huang
BC106	In Utero Cell Treatment of Hemophilia A Mice via Human Amniotic Fluid Mesenchymal Stem Cell Engraftment 高永璁 , 陳仁焜 , 陳全木 Yung-Tsung Kao, Jen-Kun Chen, Chuan-Mu Chen
BC107	Reprograming 4-Hydroxyphenylpyruvate Dioxygenase(HPPD) for Substrate Halogenation 黃小涓 李惠珍 Hsiao-Jyuan Hunag and Hwei-Jen Lee*
BC108	A Rho GTPase ARHGAP29 regulates the mitophagy pathway in Thyroid Cancer 許忠豪 , 畢文潔 , 鄭宜欣 , 林樹福 , 姜為中 , 陳威儀 Chung-Hao Hsu, Wen-Chieh Pi, I-Hsin Cheng, Shu-Fu Lin, Wei-Chung Chiang, Wei-Yi Chen

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BC110	Active Fraction of Acacia confusa Ethyl Acetate Extract Reduces Cell Viability and Inhibits Cell Migration in Human Breast Cancer Cell Lines Oiti Kar, 洪慧芝 Oiti Kar, Hui-Chih Hung
BC111	SARS-CoV-2 Non-structural protein 1 selectively inhibits host protein synthesis depending on the sequence contexts of 5'UTR 黃柏諺 , 趙廷瑀 , 陳詩政 , 余建泓 Po Yen Huang, Ting-Yu Chao, Shih-Cheng Chen, Chien-Hung Yu1
BC112	PAICS ubiquitination recruits UBAP2 to trigger phase separation for purinosome assembly 周明杰 , 陳瑞華 et al. Ming-Chieh Chou, Yi-Hsuan Wang, Fei-Yun Chen, Chun-Ying Kung, Kuen-Phon Wu, Jean-Cheng Kuo, Shu-Jou Chan, Mei-Ling Cheng, Chih-Yu Lin, Yu-Chi Chou, Meng-Chiao Ho, Steven Firestine, Jie-rong Huang, and Ruey-Hwa Chen
BC113	Combination Therapy with Sirolimus and Pyrvinium Pamoate for Neuroblastoma Treatment: Insights from Gene Expression and Proteomics Analysis 游佩蓁 , 高翊竣 , 張心儀 , 黃晨豪 , 黃宣誠 , 阮雪芬 Pei-Chen Yu, Yi-Chun Kao, Hsin-Yi Chang, Chen-Hao Huang, Hsuan-Cheng Huang, Hsueh-Fen Juan
BC114	Exploring the function and regulation of self-interaction of Arl4 small GTPases in cell migration 張庭瑋 , 吳思葶 , 李芳仁 Ting-Wei Chang, Szu-Ting Wu, Fang-Jen S. Lee
BC115	The roles of H119, N152 and Y202 on the loop in catalysis and thermal stability of Comamonas testosteroni 3α-hydroxysteroid dehydrogenase/carbonyl reductase 陳彥良 , 黃啟清 Yan-Liang Chen, Chi-Ching Hwang
BC116	Deciphering the Impact of EDC3 Phosphorylation on mRNA Regulation and its Significance in Cancer Pathogenesis 石詠淳 , 張崇德 Yung-Chun Shih, Chung-Te Chang
BC117	Role of TSPAN6 in Regulating the G1/S Transition in E2A-HLF+ Acute Lymphoblastic Leukemia 柳惜緣 , 畢文潔 , 張姵婷 , 鄭宜欣 , 賴俊霖 , 陳威儀 Hsi-Yuan Liu, Wen-Chieh Pi, Pei-Ting Chang, I-Hsin Cheng, Caucasus Jun-Lin Lai, Wei-Yi Chen
BC118	The roles of L193 and Y202 on the substrate binding loop in stability and catalysis of C.t.3α-HSD/CR 周運浩 , 黃啟清 Yun-Hao Chou and Chi-Ching Hwang

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BC120	Navigating the Complexity of Rare Cancers Through a Single-Cell Epigenetic Approach to Thymic Carcinoma 林芳平 , 徐中平 , 蕭自宏 , 陳柏霖 , 陳柏元 , 周雅菁 , 柯泰名 Fang-Ping Lin, Chung-Ping Hsu, Tzu-Hung Hsiao, Po-Lin Chen, Po-Yuan Chen, Ya-Ching Chou, Tai-Ming Ko
BC121	Employing the Structural Foundations of Acidic pH and Membrane Activation in Colicin Ib for Innovations in Cancer Therapeutic Approaches 楊捷 , 張羽鈞 , 陳顥方 , 闕斌如 , 胡念仁 Jie Yang, Yu-Chun Chang, Hao-Fung Cheng, Pin-Ju Chueh, Nien-Jen Hu
BC122	The molecular pathogenesis study with ISKNV infection: Focus on metabolism 李岳泓 , 陳廣文 , 洪健睿 Yueh-Hung Li, Kuang-Wen Chen, Jiann-Ruey Hong
BC123	The Epigenetic Regulator SETD8 Regulates Liver Cancer Malignancy Via Hippo-YAP Signaling Pathway 翁育筠 , 朱晏霆 , 周嘉揚 , 雷浩然 , 陳俊銘 , 袁維謙 Yu-Yun Weng, Yen-Ting Chu, Gar-Yang Chau, Hao-Jan Lei, Chun-Ming Chen, Wei-Chien Yuan
BC124	Setd8 reshapes immune landscape in YAP-driven malignancy 張沛綺 , 李育儒 , 袁維謙 Pei-Chi Chang, Yu-Ru Lee, Wei-Chien Yuan
BC125	Amyloid Modifier SERF1a Accelerates Alzheimer's Amyloid-β Fibrillization and Exacerbates the Cytotoxicity 蔡天穎 , 張瑋庭 , 詹益慈 , 張七鳳 , 陳韻如 Tien-Ying Tsai, Wei-Ting Jhang, Yi-Tsu Chan, Chi-Fon Chang, Yun-Ru Chen
BC126	A Novel Regulation of p53 Protein Functions through Citrullinaiton by Peptidylarginine Deiminase 4 楊宜鈁 , 李倩筠 , 劉光耀 , 洪慧芝 Yi-Fang Yang, Chien-Yun Lee, Guang-Yaw Liu, Hui-Chih Hung
BC127	Deciphering the role of a Cullin adaptor in the regulation of autophagy and Drosophila intestinal homeostasis 王怡婷 , 沈雅婷 , 陳光超 Yi-Ting Wang, Ya-Ting Shen, Guang-Chao Chen
BC128	Characterization of agar-degrading enzyme and agar oligosaccharide hydrolysates on mouse C2C12 myotubes from marine bacteria Rheinheimera sp. (HY) 黃友希 , 平坂勝也 , 蔡志明 You-Shi Huang, Katuya Hirasaka, Jyh-Ming Tsai
BC129	Investigating the role of mitophagy mediated by arginine methylated DDX3 in breast cancer progression 許文瀞 , 趙苡均 , 徐銘謙 , 鍾瞿鴻 , 蔣明臻 , 林政緯 Wen-Jing Hsu, Yi-Chun Chao, Ming-Chien Hsu, Chu-Hung Chung, Ming-Cheng Chiang, Cheng-Wei Lin

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BC131	Atovaquone and Biguanides Combinatorial Therapies Exert Synergistic Inhibition On Cancer Stemness In Triple-Negative Breast Cancers 許可佳 , 王慶宏 , 張惇皓 , 吳妍華 , 趙啟宏 Ke Jia Khoo, Cing-Hong Wang, Dun-Hao Chang, Yan-Hwa Wu Lee, Chi-Hong Chao
BC132	The Role of PCLAF in DNA Repair and Cancer Therapy 林姵玟 , 高英傑 , 陳世勳 Pei-Wen Lin, Yin-Chieh Kao, Shih-Hsun Chen
BC133	Neuroprotective Effect of NO-delivery Dinitrosyl Iron Complexes (DNICs) on Amyloid Pathology in Alzheimer's Disease Cell Model 莊雯涵 , 周昱廷 , 陳奕宏 , 郭亭函 , 廖文峯 , 魯才德 , 高智飛 , 王雲銘 Wen-Han Chuang, Yu-Ting Chou, Yi-Hong Chen, Ting-Han Kuo, Wen-Feng Liaw, Tsai-Te Lu, Chih-Fei Kao, Yun-Ming Wang
BC134	Modulation of the cytoskeletal organization by autism-associated protein CTTNBP2, facilitating neuron maturation Melanie Sandra[1,2*], Kuo-Chiang Hsia[1,3*]
BC135	Investigate the Functional Role of Nucleostemin in Replication Reversed Fork Protection 張姿淳 , 冀宏源 Chih-Chun Chang, Hung-Yuan Chi
BC136	Hydrolysis of gluten-derived celiac disease-triggering peptides across a broad pH range by RmuAp1: A novel aspartic peptidase isolated from Rhodotorula mucilaginosa 張諭涵 , 呂維茗 , 孟孟孝 Yu-Han Zhang, Wei-Ming Leu, Menghsiao Meng
BC137	Daidzein Reverses Gefitinib Chemoresistance by Inhibiting the mTOR/TFEB/LC3/Cathepsin Autophagic Lysosomal pathways in Gefitinib Resistant Lung Adenocarcinoma Cells Thomas Gabriel Mhone[1,4*], Tzu-Ching Shih[2], Wei-Wen Kuo[3*], Chih-Yang Huang [1,4,5,6,7*]
BC138	Studying the Roles of the Renin-Angiotensin System in Accelerating the Disease of High-Fat Diet Induced Diabetic Nephropathy in a db/db and ACE2 Double-Gene-Knockout Mouse Model 林孟韋 , 陳正誼 , 謝行洋 , 林承翰 , 林志生 Meng-Wei Lin, Cheng-Yi Chen, Xing-Yang Xie, Cheng-Han Lin, Chih-Sheng Lin
BC139	EGFR gene status- and stage-related tissue proteome analysis reveals the distinct role of intracellular and extracellular MYDGF in lung adenocarcinoma 蕭鼎峰 , 王智亮 , 吳怡成 , 莊文郁 , 葉琦如 , 吳嘉群 , 劉柯俊 , 張基晟 , 簡昆鎰 , 余兆松 , 游佳融 Ting-Feng Hsiao, Chih-Liang Wang, Yi-Cheng Wu, Wen-Yu Chuang, Chi-Ju Yeh, Chia-Chun Wu, Ko-Jiunn Liu, Gee-Chen Chang, Kun-Yi Chien, Jau-Song Yu, Chia-Jung Yu

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BC140	Co-regulation of SQSTM1/p62 and PD-L1 on the cell growth and tumor formation in human non-small cell lung cancer 林彥丞 , 林育瑋 , 陳建仁 , 王若昕 , 趙瑞益 Yen-Cheng Lin, Yu-Wei Lin, Chien-Jen Chang, Rou-Hsin Wang, Jui-I Chao
BC142	Phase separation of TTBK2 and CEP164 is necessary for ciliogenesis 周柏君 , 黃筠珈 , 洪詩容 , 林煜皓 , 林玉俊 , 張庭瑞 , 林逸之 , 林宜璇 , 楊東霖 , 王琬菁 , 黃介嶸 Po-Chun Chou, Yun-Chia Huang, Shi-Rong Hong, Yu-Hao Lin, Ting-Jui Ben Chang, Yizhi Lin, I-Hsuan Lin, T. Tony Yang, Yu-Chun Lin, Jie-rong Huang, Won-Jing Wang
BC143	Metabolic reprogramming of breast cancer lineage plasticity 張迎勝 , 呂琬琪 , 張君如 , 楊哲彥 Yingsheng Zhang, Wan-Chi Lu, Chun Ju Chang, Jer-Yen Yang
BC144	Regulations of Chemokines CXCL1 and CXCL8 in Neurofibroma Tumor Microenvironment 李沅庭 , 廖崇斌 Yuan-Ting Lee, Chung-Ping Liao
BC145	A single-gene-based AI model to identify core and context-specific essential genes by biological interpretation from pooled genome-wide CRISPR/Cas9 and omics data 周治瑗 , 李容羽 , 李嘉華 , 楊進木 Chih-Yuan Chou, Jung-Yu Lee, Chia-Hwa Lee, Jinn-Moon Yang
BC146	Structural basis for recruitment of peptidoglycan endopeptidase MepS by lipoprotein NlpI 王紳 , 黃駿翔 , 林德昇 , 葉奕琪 , 曾喜青 , 黃信炅 , 張宇楊 , 鄭有舜 , 張崇毅 , 曾秀如 Shen Wang, Chun-Hsiang Huang, Te-Sheng Lin, Yi-Qi Yeh, Hsi-Ching Tseng, Shing-Jong Huang, Yu-Yang Chang, U-Ser Jeng, Chung-I Chang, Shiou-Ru Tzeng
BC147	Inhibitory Effects of Novel Resveratrol Analogues on Metastatic Melanoma: Insights into SIRT3 with ROS-induced stress 藍元宏 , Evelyn Adela Nathania, 黃廷暉 , 吳安台 , 王惠民 Yuan-Hong Lan, Evelyn Adela Nathania, Ting Hui Huang, An-Tai Wu, Hui-Min David Wang
BC148	Actin Regulator Srv2/CAP2 Involves in Regulating ER-mitochondria Contact to Mediate Mitochondria Dynamics 李名洋 , 張壯榮 Ming-Yang Li, Chuang-Rung Chang
BC149	Insights into the Sigma-1 Receptor Oligomerization State through Molecular Dynamics Simulation 羅宣媗 , 楊佳寧 Hsuan-Hsuan Lo, Chai-Ning Yang

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BC150	MicroRNA-365-5p as a key regulator in protecting cardiac cells against long-term hypoxia-induced injury insights from NF2 activation. 王維筠 , 謝錦源 , 郭薇雯 , 黃志揚 Wei-Yun Wang, Dennis Jine-Yuan Hsieh, Wei-Wen Kuo, Chih-Yang Huang
BC151	Investigating The Molecular Determinants of Mitochondrial Outer Membrane Rupture During Mitophagy 林煜珊 , 劉沛函 , 孫維澤 , 姜為中 Yu-Shan Lin, Pei-Han Liu, Wei-Zse Sun, Wei-Chung Chiang
BC152	Single-cell RNA sequencing and function analyses reveal the Rab37-mediated membrane trafficking of GPNMB in tumor-associated macrophages to foster an immunosuppressive lung tumor microenvironment 楊侑恩 , 王憶卿 You-En Yang, Yi-Ching Wang
BC153	Uncovering a Novel FECH Mutation (c.1168 C>T, p.Gln390Ter) in Erythropoietic Protoporphyria (EPP) Pathogenesis 朱思如 , 王偉銘 , 張永龍 Si-Ru Zhu, Wei-Ming Wang, Yung-Lung Chang
BC154	Sublethal nutrient deprivation induces autophagy-dependent DNA damage in cells 劉伻真 , 張雋曦 Yu-Zhen Liu, Chun Hei Antonio Cheung
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CM033	Neisseria lactamica is an oral probiotic for periodontal disease 畢艾耘 , 莊玉鳳 , 侯欣翰 Ai-Yun, Pi, Yu-Feng, Chuang, Hsin-Han Hou
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CM035	Investigation of in vitro cytotoxic effect of Undaria pinnatifida fucoidan against human breast cancer 張巧忻 , 張若葳 , 鮑健愷 , 劉銘 * Chiao-Hsin,Chang, Rou-Wei,Chang, Jian-Kai,Bao, Min,Liu*
CM036	Involvement of ASAP3 in Platinum Drug Resistance in High-Grade Serous Type Ovarian Cancer 鄭伊佑 , 林彥廷 , 呂淳泓 , 張中 , 許晉銓 Yi-You Zheng, Yen-Ting Lin, Chung Hong Lyu, Chung Chang, Jim Jinn-Chyuan Sheu
CM037	Unveiling Transcriptomic Changes in Hepatocarcinogenesis and Developing Novel Therapeutic Strategies for HBV-Induced Hepatocellular Carcinoma 吳佩恩 , 林育如 , 喻秋華 Pei-En Wu, Yu-Ju Lin, Chiou-Hwa Yuh
CM038	The activation of SP3 can regulate the expression of NADPH oxidase through inflammatory stimulation in bipolar disease 羅凰瑋 , 王紹銘 Huang-Wei Lo, Shao-Ming Wang
CM039	Comparison of the bioactivity of male and female zebrafish melanocytes after β-estradiol or testosterone treatment and electrical stimulation 黃景祥 , 張嘉心 , 黃楚樺 , 杜丞偉 , 葉威良 , 莊弘 , 黃尉東 Jing-Xiang Huang, Jia-Xin Zhang, Chu-Hua Huang, Cheng-Wei Du, Wei-Liang Yeh, Hung Chuang, Wei-Tung Huang
CM040	Comparison of the bioactivity of male and female zebrafish melanocytes after α-melanocyte-stimulating hormone (α-MSH) treatment and electrical stimulation 張嘉心 , 黃景祥 , 黃楚樺 , 杜丞偉 , 葉威良 , 莊弘 , 黃尉東 Jia-Xin Zhang, Jing-Xiang Huang, Chu-Hua Huang, Cheng-Wei Du, Wei-Liang Yeh, Hung Chuang, Wei-Tung Huang
CM041	Comparison of antisense oligonucleotide transfection efficiencys between cell-penetrating peptides and commercial transfection kits and nucleolar stress study via antisense oligonucleotide transfection targeting to non-coding RNA 陳慶諺 , 劉瑞雰 , 薛秋男 Qing-Yan Chen, Betty Revon Liu, Chiou-Nan Shiue
CM042	Oral Lactobacillus zeae exacerbates the pathological manifestation of periodontitis disease in a mouse model 陳昱樺 , 侯妤玟 , 侯欣翰 Yu-Hua Chen, Yu-Wen Hou, Hsin-Han Hou

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CM043	The Effect of 3,5-Dimethylaniline-Loaded Liposome Against Non-Small Cell Lung Cancer Jyotirmayee Pradhan[1*], 李倍瑜 [1], 周沛涵 [1], 王丞傑 [1], 楊凱甯 [2], 招名威 [3,4], 曾嘉儀 [*1,4] Jyotirmayee Pradhan[1*], Pei-Yu Lee[1],Pei-Han Chou[1], Cheng-Chieh Wang[1], Kai-Ning Yang[2], Ming-Wei Chao[3,4], 曾嘉儀 Chia-Yi Tseng [*1,4]
CM044	Development of zoledronic acid-metal coordinated nanoparticles for improved anti-cancer therapy 蔡昕庭 , 鍾瞿鴻 , 林政緯 Hsin-Ting Tsai, Chu-Hung Chung, Cheng-Wei Lin
CM045	Microfluidic Device for Single-cell Evaluation on the Tumor Heterogeneity and Aggressiveness of Cisplatin induced Non-small Cell Lung Cancer 鍾佩珊 , 林佑俊 , 黃文彥 Pei-Shan Chung, Yu-chun Lin, Wen-Yen Huang
CM046	Characterization of the role of Srv2/CAP2 in mediating mitochondria inheritance and distribution in yeast cells 許書堯 , 張壯榮 Shu-Yao Hsu, Chuang-Rung Chang
CM047	The inhibition chemoresistant human colorectal cancer cells properties of isolated novel erinacine S 郭星君 , 鄧志娟 , 董水義 Hsing-Chun Kuo, Chih-Chuan Teng, Shui-Yi Tung
CM048	The cerebral protective effect of novel erinacines from Hericium erinaceus mycelium on in vivo mild traumatic brain injury animal model 郭星君 , 李錦輝 Hsing-Chun Kuo, Kam-Fai Lee
CM049	In vitro Apoptosis Induced by Monosodium Iodoacetate in Human Articular Chondrocytes: The Mechanisms and Chondroprotective Effects of 3′ -Hydroxypterostilbene 王培瑜 , 潘敏雄 , 龔瑞林 Pei-Yu Wang, Min-Hsiung Pan, Zwe-Ling Kong
CM050	Rab37 Regulates Osteopontin Secretion via Conventional Exocytosis and Secretory Autophagy Pathways in Tumor-Associated Macrophages 林俞安 , 郭琬婷 , 王憶卿 Yu-An Lin, Wan-Ting Kuo, Yi-Ching Wang
CM051	Investigating the functional roles of 5-FU drug resistance-associated genes in the Epithelial-mesenchymal transition (EMT) plasticity of colorectal cancer cells 高唯荃 , 倪宜君 , 李崑豪 Wei-Chuan Kao, Yi-Chun Ni, Kuen-Haur Lee
CM052	Investigating the synergistic cytotoxic effect of epigallocatechin-3-gallate and erlotinib by p38 MAPK activation and downregulation of XRCC3 expression in human non-small cell lung adenocarcinoma H1975 cells 黃菁綉 , 林芸薇 , 陳志誠 Ching-Hsiu Huang, Yun-Wei Lin, Chih-Cheng Chen

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CM054	Single-Cell Investigation of Clonal Diversity and Invasiveness in Heterogeneous Cancer Stem Cells 蘇婉瑜 , 林佑俊 , 張平穎 Wan-Yu Su, Yu-Chun Lin, Ping-Ying Chang
CM055	An epigenetic regulation targeting inhibitory receptors and attenuates CD8 T cell exhaustion in cancer 林佑哲 , 鄔宛蓉 , 鍾鳳祈 , 沈宜君 , 李權峻 , 李浤維 , 林光展 , 鄭維中 , 王紹椿 You-Zhe Lin, Wan-Rong Wu, Feng-Chi Chung, Yi-Chun Shen, Chuan-Chun Lee, Hong-Wei Li, Guang-Jan Lin, Wei-Chung Cheng, Shao-Chun Wang
CM056	多種植萃對重組人類酪胺酸酶的抑制效果 張佑寧 , 陳俊宏 Yu-Ning Chang, Gen-Hung Chen
CM057	MiR-129-5p mimic inhibits palmitic acid induction of epithelial-to-mesenchymal transition in human retinal pigment epithelial cells 陳柏翰 , 張祐誠 , 高英賢 Po-Han Chen, Yo-Chen Chang, Ying-Hsien Kao
CM058	Homologous Recombination Pathway Inhibitor Enhances the Therapeutic Effect of BNCT in Chemotherapy-Resistant Glioblastoma Multiforme Cells 徐梓容 , 周庭瑜 , 周鳳英 , 劉鴻鳴 , 莊永仁 Tzu-Jung Hsu, Ting-Yu Zhou, Fong-In Chou, Hong-Ming Liu, Yung-Jen Chuang
CM059	Lipid Kinase PIP5K1A Regulates Endocytic Protein Transport and Remodels Endosomal Membrane System 賴冠妘 , 許家維 Kuan-Yun Lai, Jia-Wei Hsu
CM060	To explore the mechanisms of high fat diet affecting bile acid profile, liver immunity and progression of hepatocellular carcinoma in Hepatitis B virus transgenic mice. 林潔 , 林伯軒 , 李方瑋 , 楊凱卉 , 吳肇卿 , 許佩瑄 , 林語庭 , 陳至理 Chieh Lin, Bo-Shen Lin, Fang-We Lee, Kai-Hui Yang, Jaw-Ching Wu, Pei-Shiuan Hsu, Yu-Ting Lin, Chih-Li Chen
CM061	PKA-mediated SNAP-25 phosphorylation regulates fusion pore kinetics during Ca2+-dependent exocytosis 蘇宥霖 , 蕭愉恬 , 王致恬 Yu-Lin Su, Yu-Tien Hsiao, Chih-Tien Wang
CM062	Exploring the Apoptotic Capability of OVOL1 in Pancreatic Adenocarcinoma David Haryanto, Adrian Santoso, Gleb Shamrin, 王智揚 , 陳忻怡 David Haryanto, Adrian Santoso, Gleb Shamrin, Chih-Yang Wang, Hsin-Yi Chen
CM063	KRT fusion K6-K14/V7 triggers tumor microenvironment (TME) remodeling via up-regulating cell fusion–mediated cell-in-cell (CIC) structures in OSCC 陳毅哲 , 莊鄉灝 , 林彥廷 , 許晉銓 Yi Che Chen, Hsiang-Hao Chuang, Leo Yen-Ting Lin, Jim Jinn-Chyuan Sheu

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CM065	Effect of a Mutated Membranous Receptor Protein Interacted with Ligand on the Neurite Outgrowth of Motor Neurons 李秉璋 , 黃意 , 蔡睿哲 , 蔡懷楨 Bing-Chang Lee, Yi-Hsin Huang, Jui-Che Tsai, Huai-Jen Tsai
CM066	The Role and Action Mechanism of SERPINEs in Head And Neck Cancer 黃媚旋 , 吳梨華 Mei-Xuan Ooi, Li-Wha Wu
CM067	類鼻疽桿菌的地理分布與影響分布的理化因子分析 莊曉玲 , 孫怡婷 , 孫怡君 , 陳亞雷 Hsiao-Ling Chuang,Yi-Ting Sun, Yi-Chun Sun, Ya-Lei Chen
CM068	Roles of TGIF1 in obesity-associated metabolic dysfunction 劉欣蕾 , 張育豪 , 黃暉升 Xin-Lei Liu, Yu-Hao Chang, Huei-Sheng Huang
CM069	NEDD8 Upregulation Promotes the Metastasis and Malignancy of BRAF-mutated Melanoma 李宗儒 , 林源峰 Leon Tsung-Ju Lee, Yuan-Feng Lin
CM070	Anti-UV activity in aqueous extracts derived from Glycine max 蘇于涵 , 廖雅芳 Yu-Han Su, Ya-Fan Liao
CM071	Investigating the Role of PAK6 in Glioblastoma 蔡秉宸 , 張雅雯 , 薛元碩 Bing-Chen Tsai, Alice Y.W. Chang, Yuan-Shuo Hsueh
CM072	Melatonin promotes the sensitivity of triple-negative breast cancer to Olaparib via suppressing LAMB3-CXCL2-mediated cancer-associated fibroblasts (CAFs) activation 賴怡文 , 林政緯 Yi-Wen Lai, Cheng-Wei Lin
CM073	Production of recombinant African swine fever virus p72 protein by baculovirus expression system 李宜珊 , 柯楚予 , 吳秉諭 , 賈敏原 Althea Yi-Shan Li, Chu-Yu Ke, Ping-Yu Wu, Min-Yuan Chia
CM074	The role of mitochondrial Lon-induced extracellular vesicles from tumor in the immunosuppression of dendritic cells 李語婕 , 林映辰 , 周含諭 , 汪宏達 , 李岳倫 Yu-Chieh Lee, Ying-Chen Lin, Han-Yu Chou, Horng-Dar Wang, Alan Yueh-Luen Lee
CM075	Notch switches off Hh signalling via Cul3-Ari-1 E3-E3 team tagging for ovarian germline stem cell niche specification 王妤庭 , 賴俊銘 , 許惠真 Yu-Ting Wang, Chun-Ming Lai, Hwei-Jan Hsu

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CM077	Neuroprotective Effects of Astaxanthin, Resveratrol and γ-Mangostin in Neuro-2a Cells Simulating Alzheimer's diseases 高麗淇 , 江明璋 Li-Chi Kao, Ming-Chang Chiang
CM078	Downregulation of XRCC3 expression enhances EGCG induced cytotoxicity and growth inhibition in non-small lung adenocarcinoma A549 cells. 陳姵蓉 , 林芸薇 Pei-Jung Chen, Yun-Wei Lin
CM079	RNA helicase DHX8 promotes the DNA damage response and protects genome stability 邱冠琳 , 吳翊廷 , 薛翔尹 , 朱雪萍 , 吳青錫 Kuan-Lin Chiu, Yi-Ting Wu, Xiang-Yin Xue, Hsueh-Ping Chu, Ching-Shyi Wu
CM080	急性 Balb/c 與慢性 C57BL/6 神經性類鼻疽的特徵 孫怡婷 , 孫怡君 , 莊曉玲 , 陳亞雷 Yi-Ting Sun, Yi-Chun Sun, Hsiao-Ling Chuang, Ya-Lei Chen
CM081	AQP0 plays an important role in erythropoiesis 鍾廷萱 , 林德昇 , 王佐輔 , 林冠伶 , 孫德珊 Ting-Hsuan Chung, Te-Shung Lin, Tso-Fu Wang, Guan-Ling Lin, Der-Shan Sun
CM082	Jing Si herbal tea inhibits the growth of non-small cell lung cancer cells through cGAS and STING regulation 陳宜 , 王韋然 Yi Chen, Wei-Jan Wang
CM083	Oxidative stress regulates phosphorylation and nucleocytoplasmic distribution of import α1 protein complex through AKT1 and CDK1 signaling 黃絜莘 , 王俊懿 , 郭家妤 , 張庭瑋 , 蕭鼎峰 , 游佳融 Jie-Xin Huang, Chun-I Wang, Chia-Yu Kuo, Ting-Wei Chang, Ting-Feng Hsiao, Chia-Jung Yu
CM084	Coffee and its main components chlorogenic acid and caffeic acid inhibit the glucolipotoxicity induced diabetic nephropathy 李沂芳 , 楊孟元 , 沈祐成 *, 王朝鐘 * Yi-Fang Li, Meng-Yuan Yang, You-Cheng Shen*, Chau-Jong Wang*
CM085	Investigating the propagation pathways of pathogenic α-Synuclein in the visual system of the sporadic Parkinson's disease rat model 黃品誌 , 陳詠勳 , 王致恬 Pin-Jhih Huang, Yong-Hsun Chen, Chih-Tien Wang
CM086	Therapeutic strategy to treat EGFR T790M/C797S-mutant NSCLCs 許耕耕 , 姚絲琁 , 李培志 Keng-Keng Hsu, Sir-Theng Yau, Pei-Chih Lee

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CM087	Enhancing proteasome activity ameliorates mitochondrial dysfunction and increases mitophagy flux in the HAP40-deficient Huntington's disease model cells 李芯儀 , 黃梓甯 , 何盧勳 * Sin-Yi Lee, Zih-Ning Huang, and Lu-Shiun Her*
CM088	Investigating the Roles of ZNRF1 in Regulating Retinal Waves 陳姿任 , 徐立中 , 王致恬 Tzu-Jen Chen, Li-Chung Hsu, Chih-Tien Wang
CM089	Screening for Bioactivity of Microbial Metabolites for the Regulation of Intestinal IgA Production 劉大維 , 謝松源 Ta-Wei D. Liu, Sung-Yuan Hsieh
CM090	How is Golgi apparatus built in crescent shape: the key crescent Golgi promoting factor, HURP p725, is organized as a crescent fiber through the interactions with pVimentin, Syne1 and actin 廖昱婷 , 朱晨妤 , 邱紹智 , 余長澤 Yu-Ting Amber Liao, Chen-Yu Chu, Shao-Chih Chiu, Chang-Tze Ricky Yu
CM091	Characterization of potential receptors of Dengue virus non-structural protein 1 on human erythroleukemia (HEL) cell 陳心茹 , 劉羽珊 , 孫德珊 Shin-Ru Chen, Yu-Shan Liou, Der-Shan Sun
CM092	Chitosan-Silica-Echinacea purpurea Nanoparticles Shield Microplastic-Induced Reproductive Damage in Male Model 關夙淇 , 蔡沛璇 , 林猶權 , 黃宜玉 , 龔瑞林 Delvina, Pei-Xuan Tsai, Jerrell Felim, Chien-Feng Mao, Zwe-Ling Kong
CM093	The effects of Bone Marrow-derived Mesenchymal Stem Cells on Metastatic behavior of Non-malignant Non-Small Cell Lung Cancer Cells 李瑭豈 , 林蔚鑫 , 李嘉哲 , 許元玲 , 林佩錡 , 潘思樺 Tang-Chi Li, Wei-Hsin Lin, Chia-Che Li, Yuan-Ling Hsu, Pei-Chi Lin, Szu-Hua Pan
CM094	NCI677397 targeting USP24-mediated ferroptosis and mitochondria dysfunction in drug-resistant lung cancer cells. 許鳳麟 , 王紹安 Feng-Lin Hsu, Shao-An Wang
CM095	Targeting ferroptosis via arginine deprivation to overcome the therapeutic resistance in prostate cancer 鄭碩緯 , 林今昱 , 龔行健 , 陳嘉霖 Shuo-Wei Cheng, Ching-Yu Lin, Hsing-Jien Kung, Chia-Lin Chen
CM096	Regulations of intestinal organoids via stress induced molecular coacervation of Musashi-1 stress granules and β-destruction complex 謝采穎 , 江奕勳 , 劉彥汶 , 許賀俊 , 謝霖翔 , 梁振威 鐘育志 , 邱士華 , 邱光裕 Tsai-Ying Hsieh, I-Hsun Chiang, Yen-Wen Liu, Ho-Chun Hsu, Lin-Hsiang Hsieh, Chen-Wei Leong, Yuh-Jyh Jong, Shih-Hwa Chiou, Guang-Yuh Chiou

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CM098	Exploring the Beneficial Effects of Caffeic Acids on Improving Cognitive Dysfunction in Diabetic Mice through the Promotion of Neurogenesis in the Hippocampus 謝翔寧 , 楊孟元 , 王朝鐘 Xiang-Ning Xie, Mon-Yuan Yang, Chau-Jong Wang
CM099	The functional role of PARP in TDP-43 proteinopathy Pitchapa Bubphachat, 王怡方 , 黃祺真 Pitchapa Bubphachat, I-Fang Wang, Chi-Chen Huang
CM100	Utilization of Sarcodia suiae Carbon Dioxide Extract in Cosmetic Formulations: Evaluating Benefits and Applications 鄭姝玉 , 翁堉翔 Shu-Yu Cheng, Yu-Hsiang Weng
CM101	EGFR-driven Secretory Autophagy: Unveiling TNBC Microenvironment Dynamics 林宏儒 , 吳珊瑩 , 藍凱螢 , 藍昇輝 Hong-RU Lin[1], Shan-Ying Wu[2], Kai-Ying Lan[2], Sheng-Hui Lan
CM102	The Impact of TFAM1000® on Mitochondrial Regulation of Melanin Production in B16 Cells. 陳品勳 [1], 徐姿怡 [2], 蔡孟庭 [2], 劉慈恩 [2], 奚明德 [3], 柯俊宏 [4], 謝佩坊 [1], 楊堉麟 [1] Ping-Shin Chen[1], Tzu-Yi Hsu[2],Meng-Ting Tsai[2], Tzu-En Liu[2],Ming-Der Shi[3], Chun-Hung Ko[4], Pei-Fang Hsieh[1], Yu-Lin Yang [1*]
CM103	Functional evaluation of lactic acid bacteria ferments employed in cosmetics on keratinocytes and fibroblasts 林羿汶 , 劉坤湘 Yi-Wen Lin, Kun-Hsiang Liu
CM104	Optimizing the proteasome inhibitor drugs-induced cytotoxicity through the cotreatment of Doxorubicin-mediated inhibition of aggresome in multiple myeloma cells 江琪茵 , 潘佳昀 , 潘欣妤 , 滕傑林 , 余長澤 Chi-Yin Chiang, Chia-Yun Pan, Hsin-Yu Pan, Chieh, Lin Jerry Teng, Chang-Tse Yu
CM105	Effect of Salvia miltiorrhiza Extract on Mitochondrial Activity and Extracellular Melanin Secretion in B16-F10 Mouse Melanoma Cells 林銘炫 , 謝乙瑄 , 江為宸 , 柯俊宏 , 謝佩坊 , 奚明德 , 楊堉麟 * Ming-Hsuan Lin, Hsieh Yi Xuan, Chiang Wei Chen, Chun-Hung Ko, Pei-Fang Hsieh, Ming-Der Shi, Yu-Lin Yang*
CM106	Neuroinflammatory features of the cargo protein in TIAM2S-positive microglia-derived exosomes 毛品程 , 孫孝芳 , 朱俊憲 Pin-cheng Mao, H. Sunny Sun, Chun-Hsien Chu
CM107	Crosstalk between mitochondrial stress in cancer cells and macrophages and dendritic cells in the immunosuppressive tumor microenvironment 林映辰 , 周含諭 , 郭政良 , 忻振宇 , 朱清良 , 莊宗顯 , 李岳倫 Ying-Chen Lin, Han-Yu Chou, Cheng-Liang Kuo, Jenn-Yeu Shin, Ching-Liang Chu, Tsung-Hsien Chuang, Alan Yueh-Luen Lee*

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CM109	綠原酸抑制糖脂毒性誘導之神經退化性疾病藉由促進海馬迴神經細胞新生之作用改善 詹育叡 , 楊孟元 , 王朝鐘 Yu-Jui Chan, Meng-Yuan Yang, Chau-Jong Wang
CM110	The Role of Tyrosine Phosphorylation of PCNA in Evading Immune Surveillance during the Metastasis of Breast Cancer 李權峻 , 鄔宛蓉 , 沈宜君 , 鍾鳳祈 , 王元良 , 林佑哲 , 陸志豪 , 鄭維中 , 張菡 , 劉良智 , 梁基安 , 邱昌芳 , 洪明奇 , 王紹椿 Chuan-Chun Lee, Wan-Rong Wu, Yi-Chun Shen, Feng-Chi Chung, Yuan-Liang Wang, You-Zhe Lin, Chih-Hao Lu, Wei-Chung Cheng, Han Chang, Liang-Chih Liu, Ji-An Liang, Chang-Fang Chiu, Mien-Chie Hung, Shao-Chun Wang
CM111	Study of the Molecular Mechanisms of How NEIL3 Involves in the Inflammation and Immune Cell Response in the HCC Microenvironment 張如君 , 李芸萍 , 黃溫雅 Ju-Chun Chang, Yun-Ping Lee, Wenya Huang
CM112	Mitochondria-targeted modified nanoparticles combined with magnetoelectric effects regulate mitochondrial pressure for the treatment of deep brain tumors. 連惠雯 , 陳佳可 , 胡尚秀 , 李岳倫 Hui-Wen Lien, Chia-Ko Chen, Shang-Hsiu Hu, Alan Yueh-Luen Lee
CM113	Connected methylation and phosphorylation of HDAC6 by the protein complex Ajuba-PRMT5-Aurora-A maintains the existence of aggresome with regular size 江韋駿 , 朱晨妤 , 廖奕豪 , 邱紹智 , 余長澤 Wei-Jun Jiang, Chen-Yu Chu, Yi-Hao Liao, Shao-Chih Chiu, Chang-Tze Ricky Yu
CM114	Flaxseed Oil Supplement Inhibited Lung Cancer Metastasis via Alpha-Linolenic Acid Regulation 施詠純 , 王丹青 , 許元玲 , 邱琬淳 , 潘思樺 Yung-Chun Shih, Tan-Ching Wang, Yuan-Ling Hsu, Wan-Chun Chiu, Szu-Hua Pan
CM115	Methylmalonic Acid regulate the cGAS-STING pathway subsequently influencing tumor metabolism in Non-Small Cell Lung Cancer 羅昀瑄 [1], 王韋然 [2*] Yun-Xuan Luo[1], Wei-Jan Wang[2*]
CM116	The Effect of the Combination of Pimpinellin and Paclitaxel on the Growth and Migration of MDA-MB-231 Cells 陳俊泰 , 蔡宜臻 , 陳怡曉 , 陳懿芬 Jyun-Tai Chen, Yi-Zhen Tsai, I-Hsiao Chen, I-Fen Chen
CM117	Aspirin induces ferroptosis in primary effusion lymphoma cells 蔡品儀 , 戴明泓 , 徐慧雯 , 王怡棻 Pin-Yi Tsai, Ming-Hong Tai, Huey-Wen Shyu, Yi-Fen Wang
CM118	Role of Ngal Receptor in the Development of Autosomal Dominant Polycystic Kidney Disease 林靖博 , 莊欣穎 , 羅姝雯 , 謝秀梅 Ching-Po Lin, Hsin-Yin Chuang, Shu-Wen Lo, Hsiu-Mei Hsieh

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CM121	Potential role of astragalus polysaccharides in enhancing anticancer efficacy of immune checkpoint inhibitors 吳宗翰 , 吳彰哲 Tsung-Han Wu, Chang-Jer Wu
CM122	The Mechanisms of ERα Downregulation by Ginkgetin in ER-Positive Breast Cancer 陳昀杰 , 張羽忻 , 賴郁璇 , 陳懿芬 Yun-Jie Chen, Yu-Sin Chang, Yu-Hsuan Lai, I-Fen Chen
CM123	Epigenetic Regulation of Embryonic Neural Development by the Histone N-terminal Acetyltransferase Naa40p 郭承鑫 , 阮麗蓉 Chen-Hsin Kuo, Li-Jung Juan
CM124	具多模態造影之新型治療診斷劑開發 江承諭 , 李柏昊 , 劉澤英 * Cheng-Yu Chiang, Bo-Hao Lee, Tse-Ying Liu*
CM125	Study the role of Deltex1 in non-small-cell lung cancer 陳柔伊 , 徐子勝 Rou-Yi Chen, Tzu-Sheng Hsu
CM126	Role of Naa40 and Histone N-terminal Acetylation in Development and Male Infertility 林怡孝 , 康明倫 , 楊慕華 , 阮麗蓉 Yi-Hsueh Lin, Ming-Lun Kang, Muh-Hwa Yang, Li-Jung Juan
CM127	Explore the BATF-mediated T cell Exhaustion Mechanism within CCR2+ T cell Subsets in the Lung Cancer Microenvironment 林品緣 , 楊侑恩 , 劉校生 , 郭懿瑩 Pin-Yuan Lin, You-En Yang, Hsiao-Sheng Liu, I-Ying Kuo
CM128	TGF-β-induced autophagy facilitates Annexin A2 translocation to the plasma membrane in hepatic stellate cells 陳磊 , 吳珊瑩 Lei Chen, Shan-Ying Wu
CM129	Investigating the metabolic effect of miR-221/222 in ob/ob mice 林朕宇 , 林淑容 Chen-Yu Lin, Shu-Rung Lin
CM130	Investigation of proteostasis in adult neural stem cell aging 林文淵 , 黃蔓鈞 , 阮麗蓉 Wen-Yuan Lin, Man-Chun Huang, Li-Jung Juan
CM131	An in vitro model for facilitating brain drug delivery 林宜璇 , 陳灝平 Yi-shiuan Lin, Hao-ping Chen

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CM132	Novel functions of P27 in EGFR-mediated survival signaling in lung cancers. 劉安安 , 陳卉宇 , 李培志 An-An Liu, Hui-Yu Chen, Pei-Chih Lee
CM133	Oncogenic roles of LncHIFCAR/KDM4 axis in hypoxic OSCC 沈博文 , 趙娟娟 , 林今昱 , 許勝捷 , 吳俊賢 , 雷慶萱 , 王雯靜 , 楊慕華 , 龔行健 , 施景文 Po-Wen Shen, Chuan-Chuan Chao, Ching-Yu Lin, Sheng-Chieh Hsu, Chun-Hsien Wu, Cing-Syuan Lei, Wen-Ching Wang, Muh-Hua Yang, Hsing-Jien Kung, Jing-Wen Shih
CM134	Breaking the Symmetry of Cell Contractility Drives Tubulogenesis via CXCL1 Polarization 郭承翔 李耕輝 吳華林 黃俊淵 湯銘哲 Cheng-Hsiang Kuo, Gang-Hui Lee, Hua-Lin Wu, Jyun-Yuan Huang, and Ming-Jer Tang
CM135	γ-Tocotrienol Protects Muscle Cells from Atrophy through Downregulation of Steroid Metabolism 張俊毅 , 黃翠琴 , 夏詩閔 , 張心儀 Jun Yi Chong, Tsui-Chin Huang, Shih-Min Hsia, Hsin-Yi Chang
CM136	Target Identification of a Marine Natural Product Using a Chemoproteomics Approach 蕭琬錡 , 牛廣浩 , 羅振夫 , 王靖雅 , 紀雅惠 , 黃偉誠 , 童俊維 , 宋秉鈞 , 鄒倫 , 張明姿 Wan-Chi Hsiao, Guang-Hao Niu, Chen-Fu Lo, Jing-Ya Wang, Ya-Hui Chi, Wei-Cheng Huang, Chun-Wei Tung, Ping-Jyun Sung, Lun Kelvin Tsou, Mingzi M. Zhang
CM137	透明質酸奈米顆粒應用於預防乳癌轉移 謝秉勳 , 胡旃鈺 , 劉澤英 Ping-Hsun Hsieh, Chan-Yu Hu, Tse-Ying Liu
CM138	Structural Convergence Endows Nuclear Transport Receptor Kap114p with a Transcriptional Repressor Function Toward TATA-Binding Protein 廖重淇 , 王奕森 , 畢文潔 , 王俊雄 , 吳逸民 , 陳威儀 , 夏國強 Chung-Chi Liao, Yi-Sen Wang, Wen-Chieh Pi, Chun-Hsiung Wang, Yi-Min Wu, Wei-Yi Chen, Kuo-Chiang Hsia

CB 中華民國臨床生化學會

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CB001	Urinary F2-isoprsotanes is a Sensitive Marker to Monitor the Therapeutic Effect of DMPS on Suppressing Oxidative Damage of Renal Tubules following Chronic Lead Poisoning 姜淳軒 , 顏宗海 , 顏秀娟 Chun-Xuan Jiang, Tzung-Hai Yen, Hsiu-Chuan Yen
CB002	Identification of Coq6-containing Protein Complex in the Mitochondria from Mouse Cells 陳彥蓁 , 顏秀娟 Yan-Zhen Chen, Hsiu-Chuan Yen
CB003	Snail Conferred the Outer Cell Fate in a Cell-in-Cell (CIC) Structure Associating with Poor Prognosis in Colorectal Cancer 趙慧青 , 藍欣怡 , 鄧豪偉 , 林彥佑 , 黃尉倫 Hui-Ching, Chao, Hsin-Yi Lan, Hao-Wei Teng, Yen-Yu Lin, Wei-Lun Hwang
CB004	Targeting Dormant-like, Acquired Cetuximab-resistant Colorectal Cancer Cells by Exosome-based Natural Killer Cell Immunotherapy 林宥彤 , 陳立昀 , 涂玉青 , 張安辰 , 黃尉倫 You-Tong, Lin, Li-Yun, Chen, Yuh-Ching, Twu, An-Chen, Chang, Wei-Lun Hwang
CB005	TRPM8 Mitigates Tubular Apoptosis and Cyst Growth via Mitochondrial Dysfunction in Mice with Autosomal Dominant Polycystic Kidney Disease 蔡嘉慧 , 方華章 , 周康茹 , 胡亮萱 , 吳春靜 , 黃政文 , 饒梓明 Chia-Hui Tsai, Hua-Chang Fang, Kang-Ju Chou, Liang-Shuan Hu, Chun-Ching Wu, Jenq-Wen Huang, Tzu-Ming Jao
CB006	Treatment with a new barbituric acid derivative induces apoptosis signaling in hepatocellular carcinoma cells 萬川琳 , 許銘華 , 廖宜真 Chuan-Lin Wan, Ming-Hua Hsu, Yi-Jen Liao
CB007	SERPINE1 Promotes DNA Double-Strand Break Repair to Elicit Radioresistance in Breast Cancer 陳明鋒 , 蘇詠涵 , 郭靜穎 Ming-Feng Chen, Yong-Han Su, Ching-Ying Kuo
CB008	Molecular Mechanisms of Contactin 4-mediated Tumor Suppressor Functions in Colorectal Cancer 湯于萱 , 李昕庭 , 林宜芊 , 陳柏霖 , 李景行 , 江紹瑜 , 饒梓明 , 蔡明宏 , 楊雅倩 Yu-Hsuan Tang, Hsin-Ting Lee, I-Chien Lin, Po-Lin Chen, Jing-Xing Lee, Shao-Yu Chiang, Tzu-Ming Jao, Ming-Hong Tsai, Ya-Chien Yang
CB009	SLC34A2 Gene: Unveiling Its Significance in Chronic Kidney Disease and the Altered Metabolism of Proximal Tubular Cells through Metabolomic Analysis 謝霽安 , 劉若婕 , 胡亮萱 , 蔡嘉慧 , 林承學 , 張書偉 , 楊雅倩 , 饒梓明 Chi-An Hsieh, Ruo-Jie Liu, Liang-Shuan Hu, Chia-Hui Tsai, Cheng-Hsueh Lin, Shu-Wei Chang, Ya-Chien Yang, Tzu-Ming Jao
CB010	Adiponectin Receptor Agonist AdipoRon induces Ferroptosis via Mitochondrial Dysfunction and Lipid Metabolic Alteration in Breast Cancer Cells 賈子怡 , 吳宜臻 , 蘇詠涵 , 楊歆懿 , 林倩如 , 陳政彰 , 郭靜穎 Tzu-Yi Chia, Yi-Zhen Wu, Yong-Han Su, Hsin-Yi Yang, Alice C. Lin, Cheng-Chang Chen, Ching-Ying Kuo

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CB011	Pathway enrichment analyses of N-deacetylase/N-sulfotransferase 4-mediated tumor suppression in colorectal cancer. 蔡珈泠 , 蕭世柔 , 曾盛泰 , 饒梓明 , 蔡明宏 , 楊雅倩 Chia-Ling Tsai, Shi-Rou Hsiao, Sheng-Tai Tzeng, Tzu-Ming Jao, Ming-Hong Tsai and Ya-Chien Yang
CB012	Proofreading of C-C Mismatches within Primer-template Junction by DNA Polymerase I in vivo 莊詠筑 , 張惠嵐 , 方羿凱 , 張淑媛 , 方偉宏 Yung-Chu Chuang, Hui-Lan Chang, Yi-Kai Fang, Sui-Yuan Chang, Woei-horng Fang
CB013	Utilizing Atovaquone-Incorporated Thermosensitive Hydrogel to Synergize with Radiation by Energy Deprivation for High-Grade Glioma 陳映如 , 梁祥光 Ying-Ru Chen, Hsiang-Kuang Liang
CB014	The Analytical Relevance between HBcrAg, HBeAg, and HBsAg 黃士容 , 陳之葉 , 賴明龍 Shih-Rong Huang, Chih-Yeh Chen, Min-Long Lai
CB015	導入品管圈手法降低血液銅及鋅的檢驗成本 徐佑靈 , 黃恒毅 , 黃韻芬 , 鄭靜芸 , 林佳霓 Yu-Ling Hsu,Heng-Yi Huang,Yun-Fen Huang,Ching-Yun Cheng,Chia-Ni Lin
CB016	變異血色素導致常規糖化血色素檢驗異常結果之案例分享 鄭靜芸 , 余家瑞 , 林佳霓 Ching-Yun Cheng, Jia-Ruei Yu, Chia-Ni Lin
CB017	Efficiency Enhancement in Fragile X Carrier Screening: Reduction of Analysis Time and Reaction Costs through Triple-Primed PCR 邱延慧 , 賴明龍 Yen-Hui Chiu, Min-Long Lai
CB018	Optimizing Non-Invasive Prenatal Testing Results with Innovative Filtering Tools 陳之葉 , 丁之敏 , 林鈺城 , 賴明龍 Chih-Yeh Chen, Chih-Min Ting, Shih-Rong Huang, Ming-Long Lai
CB019	Establishment of Recombinant Beta2-Glycoprotein I Expression Platform for Potential Medical Applications 呂世正 , 游士賢 , 楊嘉欣 , 游子嫻 , 宋榮松 Shr-Jeng Jim Leu, Shih-Hsien Yu, Ka-Ian Ieong, Zi-Xian Yo, Jung-Sung Sung
CB020	利用骨免疫調控來治療骨質疏鬆症 林怡彤 , 蔡孟庭 , 劉澤英 Yi-Tung Lin, Meng-Ting Cai, Tse-Ying Liu

TX 台灣毒物學學會

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TX001A	MicroRNA-376a-3p Sensitizes CPT-11 Resistant Colorectal Cancer by Inhibiting the Epithelial To Mesenchymal Transition (EMT) Through IGF1R Downregulation Chikondi Jassi, Wei-Wen Kuo, Yu-Chun Chang, Chih-Yang Huang
TX002A	MiR493-3p Sensitize Gefitinib Resistant Lung Cancer Cell Line Through Downregulation of DPY30 Valens Munyembaraga, Thomas G. Mhone, Yung-Luen Yu, Wei-Wen Kuo, Chih Yang Huang
TX003A	Rab37 Mediates Trafficking and Membrane Presentation of PD-1 to Sustain T Cell Exhaustion in Lung Cancer 郭琬婷 , 郭懿瑩 , 謝宏嘉 , 吳思亭 , 蘇五洲 , 王憶卿 Wan-Ting Kuo, I-Ying Kuo, Hung Chia Hsieh, Ssu-Ting Wu, Wu-Chou Su, Yi-Ching Wang
TX004A	Phosphorylation of PD-1 Promotes its Protein Stability and Membrane Presentation which can be Counteracted by Ubiquitination in CD8 T Cells. 陳冠宇 , 劉易姍 , 謝宏嘉 , 王憶卿 Kuan-Yu Chen, Yi-Shan Liu, Hung-Chia Hsieh, Yi-Ching Wang
TX005A	The Fibroblast Growth Factor Receptor Four Inhibitor Fgf401 Potentiates The Antitumor Effects of Trastuzumab in Fgfr4-Overexpressing Trastuzumab-Resistant Her2(+) Breast Cancer Cells. 鄭自君 , 杜世興 , 陳莉菁 , 何元順 Tzu-Chun Cheng[1], Shih-Hsin Tu[2], Li-Ching Chen[3], Yuan-Soon Ho
TX006A	Sequestosome 1 (SQSTM1)/p62 and Aurora A in regulating nanocarrier delivery of fluorescent nanodiamond in the mitosis of colorectal cancer cells 張惇慈 , 邱薇如 Tun-Tzu Chang, Wei-Ru Qiu
TX007A	Role of Sequestosome-1 (SQSTM1)/p62 in regulating a novel 5,8-quinolinedione compound (PT262) for apoptosis induction using human colorectal cancer cells and organoids 劉懿琳 , 黃郁晴 , 趙瑞益 Yi-Lin Liu, Yu-Ching Huang, Jui-I Chao
TX008A	Effects of Sequestosome-1 (SQSTM1)/p62 on a TrkA inhibitor Entrectinib in the cell viability and apoptosis of non-small cell lung cancer cells 唐生悅 , 張建仁 , 趙瑞益 Sheng-Yueh Tang[1], Chien-Jen Chang [2], Jui-I Chao[1,3,4*]
TX009A	Investigation of nicotine-induced breast cancer progression and resistance to Herceptin therapy by Patient-Derived Xenograft model 廖佑承 , 陳莉菁 , 何元順 * You-Cheng Liao, Li-Ching Chen, Yuan Soon Ho*
TX010A	Investigating the Molecular Mechanism of Mir-378a/Cpt-1a-Mediated Lipid Droplet Degradation in Oral Cancer 方慈媛 , 蕭振仁 , 汪宏達 , 夏興國 TZU-Yuan Fang, Jenn-Ren Hsiao, Horng-Dar Wang, Shine-Gwo Shiah
TX011A	Unveiling the anti-melanoma effect and mechanism of Sertindole, an antipsychotic agent 劉和祥 , 張嘉哲 Ho-Hsiang Liu, Chia-Che Chang

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TX012A	Combining radio/anti-PD-L1 antibody and targetable cisplatin-complex Au nanoparticles for oral cancer: Crosstalk among tumor microenvironment, abscopal effects and ferroptosis. 葉又瑜 , 王應然 Yu-Yu Yeh, Ying-Jan Wang
TX013B	β-Sitosterol Suppresses the Progression of Lung Cancer Cells by Inducing Apoptosis and Inhibiting Survival and Migration through Inhibition of the FGFR/PI3K/AKT/Cyclin D1 Pathway Musarat Hussain[1], Chikondi Jassi[2], Wei-Wen Kuo[2], Chih-Yang Huang[1,3,4,5,6]
TX014B	3-hydroxyflavone increase the sensitivity of NSCLC cells to Gefitinib in vitro Indra Putra Taufani, 郭薇雯 , 黃志揚 Indra Putra Taufani, Kuo Wei-Wen, Huang Chih-Yang
TX015B	Examining the Potential of Chinese Medicinal Herbs and Components to Augment HIF-1α Activation for Mitigating Mitochondrial Dysfunctions and Inhibiting 黃襄川 , 黃志揚 , 郭薇雯 Shang-Chuan Ng, Chih-Yang Huang, Wei-Wen Kuo
TX016B	Ferroptosis in Aging Skin Explore Potential Protective Effect of Tea Polyphenols against Neurotoxicity caused by Epilepsy-Inducing Drugs in N2a Cells 陳又榕 , 王祖興 Yu-Jung Chen, Tsu-Shing Wang
TX017B	A Novel Herbal Formula Exhibits Anti-tumor Activities in Non Small Lung Cancer Cells with Drug Resistance Nurhayati, 林佑融 , 郭薇雯 , 黃志揚 Nurhayati, Yu Jung Lin, Wei-Wen Kuo,Chih-Yang Huang
TX018B	Dissecting The Effects of Curcumin/Curcuminoids on Mitochondrial Dynamics and Apoptosis Navyamol C D, 張壯榮 Navyamol C D, Chuang-Rung Chang
TX019B	Lung-Protective Effect of Lotus Seedpod in Vitro And in Vivo Models of Bleomycin-Induced Pulmonary Fibrosis 康家維 , 余佩蓉 , 蔡珮珮 , 陳璟賢 *, 林慧萱 * Chia-Wei Kang, Pei-Rong Yu, Yun-Pei Tsai, Jing-Hsien Chen*, Hui-Hsuan Lin*
TX020B	The Inhibitory Effect of Lotus Seedpod Against Trans, trans 2,4-decadienal-Induced Cell Hyperplasia And Differentiation of Lung Fibroblasts 林映汾 , 張淯棋 , 蔡嘉芠 , 陳璟賢 *, 林慧萱 * Ying-Fen Lin, Yu-Ci Chang, Chia-Wen Tsai, Jing-Hsien Chen*, Hui-Hsuan Lin*
TX021B	Anticancer Efficacy of Corchorus Olitorius L. Leaf Extracts in KRAS Mutant Human Pancreatic Cancer Cells Through Induction of Ferroptosis 曾巧云 , 梁郁旋 , 文詩羽 , 曾湘婷 , 徐成金 , 林慧萱 *, 陳璟賢 * Chiao-Yun Tseng, Yu-Hsuan Liang, Shih-Yu Wen, Siang-Ting Zeng, Cheng-Chin Hsu, Hui-Hsuan Lin*, Jing-Hsien Chen*
TX022B	Quercetin inhibits truncated isoform of dopamine- and cAMP-regulated phosphoprotein as adjuvant treatment for Trastuzumab therapy resistance in HER2-positive breast cancer 張瀚升 , 鄭自君 , 陳莉菁 , 何元順 Han-Sheng Chang, Tzu-Chun Cheng, Li-Ching Chen, Yuan-Soon Ho

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TX023B	Investigating the role of the STAT3 signaling pathway in the anti-bladder cancer properties of Fucoxanthin 陳子璇 , 戴彣錡 , 呂謹亨 , 許兆畬 , 張嘉哲 Tzu-Hsuan Chen, Wen-Chyi Dai, Chin-Heng Lu, Chao-Yu Hsu, Chia-Che Chang
TX024C	Effects Of Cypermethrin On Inflammation And Fat Accumulation In Male C57BL/6J Mice 張馨之 , 陳于婷 , 黃少玫 , 劉予慈 , 簡睿頤 , 楊舒涵 , 甘菀暄 , 侯又禎 Hsin-Chih Chang, Yu-Ting Chen, Hsiao-Mei Huang, Joyce Liou, Jui-Yi Chien, Shu-Han Yang, Wan-Hsuan Kan, Yu-Chen Hou
TX025C	Establishment of a high-throughput nanotoxicity testing model using autophagy in zebrafish 盧靜瑜 , 陳姿羽 , 王應然 Jing-Yu Lu, Zi-Yu Chen, Ying-Jan Wang
TX026C	Assessing the toxicity outcome of skin sensitization and aging effect of chlorothalonil through NLRP3 inflammasome-autophagy pathway 鄭詠璇 , 吳宣儀 , 陳育瑩 , 王應然 Yung-Hsuan Cheng, Hsuan-I Wu, Yu-Ying Chen, Ying-Jan Wang
TX027C	Indoxyl Sulfate Inhibits Myoblast Differentiation/Myogenesis by Affecting Iron Metabolism and Antioxidant Balance 莊佳樺 , 劉興華 Jia-Hua Jhuang, Shing-Hwa Liu
TX028C	Indoxyl Sulfate: Unveiling its Role in Cartilage Senescence and Iron-Dependent Ferroptosis 鐘耀邦 , 楊榮森 , 劉興華 Yao-Pang Chung, Rong-Sen Yang, Shing-Hwa Liu
TX029C	Developing integrated testing strategy (ITS) on acute fish toxicity using in silico and in vitro data 陳姿羽 , 李子寧 , 李艷林 , 王應然 Zi-Yu Chen, Tzu-Ning Li, Yen-Ling Lee, Ying-Jan Wang
TX030C	Bioaccumulation of AgNPs induces autophagic dysfunction in adult intestinal stem cells to accelerate functional aging 宋承翰 , 陳姿羽 , 王應然 , 顏賢章 Cheng-Han Song, Zi-Yu Chen, Ying-Jan Wang, Shian-Jang Yan
TX031C	Combining multi-omics and alternative test methods to investigate the potential nephrotoxicity and reproductive toxicity pathways induced by food contaminants 3-monochloropropane-1,2-diol (3-MCPD) and glycidol 陳思寧 , 黃盈瑄 , 陳容甄 Ssu-Ning Chen, Ying-Xuan Huang, Rong-Jane Chen
TX032C	探討高分子奈米材料減緩 UVB 導致的皮膚光老化效應與相關機制 郭嘉雯 , 李宥萱 * Chia-Wen Kuo, Yu-Hsuan Lee*
TX033C	Comparison of Different Nanomaterials Induced Aquatic Toxicity in D. magna 洪靖濡 , 陳育瑩 , 王應然 Ching-Ju Hung, Yu-Ying Chen, Ying-Jan Wang

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TX034D	Transgenic zebrafish with delta-12/delta-15 desaturase and delta-6/delta-15 desaturase to enhance n-3 PUFA synthesis and resist to Streptococcus agalactiae infection 葉美辰 , 洪秋楓 , 郭倩妤 , 冷芳欣 , 耿全福 Mei-Chen Yeh, Chiu-Feng Hung, Qian-Yu Guo, Fang-Hsin Leng, Chuian-Fu Ken
TX035D	Modulation of Mitochondrial Function and Tubulointerstitial Fibrosis by SLC34A2 in the Context of Chronic Kidney Disease 劉若婕 , 謝霽安 , 胡亮萱 , 蔡嘉慧 , 林承學 , 張書偉 , 楊雅倩 , 姜至剛 , 饒梓明 Ruo-Jie Liu, Chi-An Hsieh, Liang-Shuan Hu, Chia-Hui Tsai, Cheng-Hsueh Lin, Shu-Wei Chang, Ya-Chien Yang, Chih-Kang Chiang, Tzu-Ming Jao
TX036D	Inter-Alpha-Trypsin Inhibitor Heavy Chain 4-regulated LARS2 Expression On Type II Alveolar Epithelial Cell Of Acute Respiratory Distress Syndrome 林依薇 , 莊校奇 Yi-Wei Lin, Hsiao-Chi Chuang
TX037D	探討空氣汙染物 PM 加劇皮膚屏障損傷機制及對異位性皮膚炎患者之影響 賴盈均 , 李宥萱 Ying-jyun Lai, Yu-Hsuan Lee
TX038D	The protective role of ITIH4 in particulate air pollution-induced lung injury mouse model 彭學薇 , Vincent Laiman, 莊校奇 Syue-Wei Peng, Vincent Laiman, Hsiao-Chi Chuang
TX039D	ITIH4 mitigates the severity of acute respiratory distress syndrome via MALAT1 施育暄 , 莊校奇 Yu-Syuan Shih, Hsiao-Chi Chuang
TX040D	Deglycosylation of Influenza A H7N9 VLP Enhances Cross-Strain Neutralization: Unveiling a Promising Vaccine Approach Asmaul Husna, 胡凱傑 , 賴嘉俊 , 翁彩娟 , 林旻翰 , 李敏西 , 蘇士哲 , 宋旺洲 Asmaul Husna, Kai-Cheih Hu, Chia-Chun Lai, Tsai-Chuan Weng, Min-Han Lin, Min-Shi Lee, Shih-Che Sue, Wang-Chou Sung
TX041D	Analysis of Hypoxia-Mediated Hippo Signaling in Fetal Lung Branching Morphogenesis and Gene Expression 廖紫安 , 莊校奇 Zih-An Liao, Hsiao-Chi Chuang
TX042	柚皮素對腦缺血大鼠之大腦皮質脂質過氧化作用 , 抗氧化酵素活性與微量元素濃度之效應 陳瑜鈞 , 林明政 Yu-Jun Chen, Ming-Cheng Lin
TX043	羅布麻素對缺血性大腦皮質的神經保護機制與脂質過氧化作用 , 抗氧化物活性 , 微量元素和有毒金屬濃度的改變有關 許子涵 , 林明政 * Tzu-Han Hsu, Ming-Cheng Lin*
TX044	Genistein suppressed endocytosis and fibrogenesis in transforming growth factor-β1-stimulated keloids through the CTGF signaling pathways. 湯曉君 , 呂俊德 , 柯俊良 Sheau-Chung Tang, Chun-Te Lu, Jiunn-Liang Ko

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TX045	Characterization of the Abasic Sites in Leucocytes Derived from Breast Cancer Patients and 5-Year Survivors by the Putrescine and T7 Exo and Exo III Cleavage Assay 陳湘慈 , 蔡家羚 , 吳睿芳 , 林喆 , 馮啓彥 , 蔡裕君 , 黃聖閔 , 韋程皓 , 徐麒 , 丁誠達 , 陳達人 , 林伯雄 Hsiang-Tzu Chen, Jia-Lin Tsai, Jui Fang Wu, Che Lin, Chi-Yen Feng, Gilang Putra Bahari, Sheng-Min Huang, Cheng-Hao Wei, Qi Xu, Thanh Dat Dinh, Dar-Ren Chen, Po-Hsiung Lin
TX046	Analysis of the Background Levels of Estrogen Quinone-Derived Hemoglobin Adducts in Breast Cancer Patients Before and After Treatment 方厚喻 , 李安妮 , 楊建澤 , 陳達人 , 林喆 , 謝為忠 , 林伯雄 Hou-Yu Fang, An-Ni Li, Chien-Tse Yang, Dar-Ren Chen, Che Lin, Wei-Chung Hsieh, Po-Hsiung Lin
TX047	Cypermethrin Increased Androgen Receptor Expression but Decreased Expressions of Estrogen Receptor, Thyroxine Receptor and Aromatase Activity with Western Blot Analysis in Whole Rat Embryo Culture 呂水淵 *, 廖婧淳 , 陳敏貞 , 陳婉心 , 謝玉貞 , 蔡韙任 , 王建彬 Shui-Yuan Lu*, Jing-Chun Liao, Min-Chen Chen, Wan-Hsin Chen, Yu-Chen Hsieh, Wei-Ren Tsai, Jen-Bin Wang
TX048	Glyphosate Increased Expressions of Androgen Receptor, Estrogen Receptor (ERβ), Thyroxine Teceptor (TRα) and Aromatase Activity with Western Blot in Whole Rat Embryo Culture 呂水淵 *, 廖婧淳 , 陳敏貞 , 陳婉心 , 謝玉貞 , 蔡韙任 , 王建彬 Shui-Yuan Lu*, Jing-Chun Liao, Min-Chen Chen, Wan-Hsin Chen, Yu-Chen Hsieh, Wei-Ren Tsai, Jen-Bin Wang
TX049	Benomyl and Carbendazim Disrupted Hormone Receptor Expression with Western Blot Analysis in Whole Rat Embryo Culture 呂水淵 *, 廖婧淳 , 陳敏貞 , 陳婉心 , 謝玉貞 , 蔡韙任 , 王建彬 Shui-Yuan Lu*, Jing-Chun Liao, Min-Chen Chen, Wan-Hsin Chen, Yu-Chen Hsieh, Wei-Ren Tsai, Jen-Bin Wang
TX050	Carbendazim-Inhibited Androgen Receptor Expression of Hippocampus in Epilepsy Male Rats of Multi-Generation Reproductive Toxicity 呂水淵 *, 廖婧淳 , 陳敏貞 , 陳婉心 , 謝玉貞 , 蔡韙任 , 王建彬 Shui-Yuan Lu*, Jing-Chun Liao, Min-Chen Chen, Wan-Hsin Chen, Yu-Chen Hsieh, Wei-Ren Tsai, Jen-Bin Wang
TX051	Propiconazole, Tebuconazole, Penconazole and Triadimefon Disrupted Expressions of Androgen Receptor (AR), Thyroxine Receptor (TRα and TRβ) and Aromatase Activity with Western Blot in Whole Rat Embryo Culture 呂水淵 *, 廖婧淳 , 陳敏貞 , 陳婉心 , 謝玉貞 , 蔡韙任 , 王建彬 Shui-Yuan Lu*, Jing-Chun Liao, Min-Chen Chen, Wan-Hsin Chen, Yu-Chen Hsieh, Wei-Ren Tsai, Jen-Bin Wang
TX052	Rhodamine B Disrupted Expressions of Androgen Receptor (AR), Thyroxine Receptor (TRα and TRβ) and Aromatase Activity with Western Blot in Whole Rat Embryo Culture 呂水淵 *, 廖婧淳 , 陳敏貞 , 陳婉心 , 謝玉貞 , 蔡韙任 , 王建彬 Shui-Yuan Lu*, Jing-Chun Liao, Min-Chen Chen, Wan-Hsin Chen, Yu-Chen Hsieh, Wei-Ren Tsai, Jen-Bin Wang
TX053	Thiabendazole and Flutamide Disrupted Expressions of Estrogen Receptor (ERβ), Thyroxine Receptor (TRβ) and Aromatase Activity with Western Blot in Whole Rat Embryo Culture 呂水淵 *, 廖婧淳 , 陳敏貞 , 陳婉心 , 謝玉貞 , 蔡韙任 , 王建彬 Shui-Yuan Lu*, Jing-Chun Liao, Min-Chen Chen, Wan-Hsin Chen, Yu-Chen Hsieh, Wei-Ren Tsai, Jen-Bin Wang

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TX054	Distinct Skin Sensitivity Related Gene Expressed of Epidermis Cell Line A-431 in Different Pesticide Product Concentrations Treatment 李悅怡 , 楊予霈 , 林良怡 Yueh-Yi Lee, Yu-Pei Yang, Liang-Yi Lin
TX055	Assessing the safety of nanoparticles employed in nanofertilizers and nanopesticides via in vitro intestinal model systems 陳泇穎 , 陳容甄 Cheng Jia Ying, Rong-Jane Chen
TX056	Using alternative test methods to evaluate the potential genotoxicity, carcinogenicity and adverse outcome pathways of ZnO nanoparticles utilized in food 林庭羽 , 陳容甄 Ting-Yu Lin, Rong-Jane Chen
TX057	A Novel EGFR-TKI Targeting Metabolism for Cancer Therapy 張欣蕙 , 張壯榮 , 劉柯俊 , 黃致翔 , 謝興邦 , 龔行健 , 郭靜娟 Hsin-Huei Chang, Chuang-Rung Chang, Ko-Jiunn Liu, Chih-Hsiang Huang, Hsing-Pang Hsieh, Hsing-Jien Kung, Ching-Chuan Kuo
TX058	Novel dual inhibitor for targeting apoptosis in cancer cells and angiogenesis exerts potent antitumor activities against patient-derived xenograft models of human colorectal cancer 湯雅筑 [1], 黃致翔 [1], 林麗梅 [1], 王意心 [1], 黃紫婷 [1], 洪怡玫 [2], 劉柯俊 [2], 張俊彥 [3], 蔣維棠 [1], 歐金俊 [4], 郭靜娟 [1*]
TX059	Anti-tumor effects of mast cells within tumor microenvironment in head and neck squamous cell carcinoma. 許洛慈 , 柯思絜 , 姚肇盈 , 江士昇 , 張書銘 , 黃嘯谷 , 劉柯俊 , 張俊彥 , 周裕珽 , 郭靜娟 Luo-Cih Syu, Ssu-Chieh KO, Jau-Ying Yao, Shih-Sheng Jiang, Jeffrey Shu-Ming Chang, Shau-Ku Huang, Ko-Jiunn Liu, Jang-Yang Chang, Yu-Ting Chou, Ching-Chuan Kuo
TX060	Evaluating the Embryotoxicity of Benzophenone-based Photoinitiators Using Stem Cells Methodologies 翁甄憶 , 蔡明憲 , 張孜菁 , 劉俊揚 , 徐如欣 , 何佳琪 , 林嬪嬪 Chen-Yi Weng, Ming-Hsien Tsaia, Tzu-Ching Chang, Jun-Yang Liou, Ju-Hsin Hsu, Chia-Chi Ho, Pinpin Lin
TX061	Magnolin inhibits growth, migration, and invasion through modulation of TGF-β1/MMPs and PTAFR expression in renal cell carcinoma 黃彥心 , 邱慧玲 , 謝逸憲 Yen-Shin Huang, Hui-Ling Chiou, Yi-Hsien Hsieh
TX062	Tangeretin modulates migration and invasion in Cervical Cancer Cells: Insights into Molecular Mechanisms 林恆樑 , 謝逸憲 Lin-Heng Liang, Yi-Hsien Hsieh
TX063	Study On The Anti-cancer Activity Of Supercritical Fluid Extraction Zingiber Zerumbet Essential Oil On The Gastric Cancer 蔡依臻 , 廖伯霖 Yi-Chen Tsai, Po-Lin Liao
TX064	EPA 900 as an Adjunct Treatment for Headache Reduction in Patients with Episodic Migraine 程淑慧 , 楊鈞百 , 何映萱 , 莊雅芳 , 王雪芳 Shur-Hueih Cherng, Chun-Pai Yang, Ying-Hsuan Ho, Ya-Fang Zhuang, Hsueh-Fang Wang

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TX065	The immunosuppressive effects of gold nanoparticles on the anti-tumor immune responses in the CT26 syngeneic mouse model 李彥妮 , 鄧子華 , 王家琪 , 詹東榮 Yan-Ni Lee, Tzu-Hua Teng, Chia-Chi Wang, Tong-Rong Jan
TX066	Synthesis and photocytotoxic activities of novel berberine-cyproheptadine derivatives as potential anticancer agent 黃丞佑 , 吳進益 Cheng-You Huang, Jin-Yi Wu
TX067	The CYP2A Inactivation by An Imperatorin-Containing Herbal Formula Xin-yi-san in Mice 翁芸芳 , 陳安琦 , 池佳珊 , 張裕萍 Ueng, Yune-Fang, Chen, An-Chi, Jia-Shan Chih, and Chang, Yu-Pin
TX068	Investigation Of The Potential Anti-inflammatory And Antioxidant Effects Of Persimmon Leaf Extracts On The Retina 陳紫瑜 廖伯霖 Tzu-Yu Chen Po-Lin Liao
TX069	The therapeutic potential of Disintegrin ARGDRR in AKI to CKD continuum 江采蓁 [1], 陳佳煌 [1], 姜至剛 [1,2,3*], 黃政文 [2], 洪冠予 [2,6,7], 楊紹佑 [2], 黃德富 [4], 莊偉哲 [5] Tsai-Chen Chiang[1], Jia-Huang Chen[1], Chih-Kang Chiang[1,2,3*], Jeng-Wen Huang[2], Kuan-Yu Hung[2], Shao-Yu Yang[2], Tur-Fu Huang[4], Woei-Jer Chuang[5]
TX070	Toxicity mechanism of mitochondrial dysfunction in β-cells causing pancreatic failure after carbon monoxide poisoning 陳子豪 , 林俐君 , 王應然 Tzu-Hao Chen, Li-Chun Lin, Ying-Jan Wang
TX071	Comparison of classification predictivity on pesticide formulations by using different in vitro skin irritation methods 廖俊麟 , 羅彥鈞 , 黃禹棋 Chun-Lin Liao, Yen-Chun Lo, Ru-Ci Huang
TX072	Using New Approach Methodologies (NAMs) to Establish Nonpolar Narcotic Substances in Integrated Testing Strategy (ITS) for Ecotoxicity 郭芮均 , 陳姿羽 , 王應然 Chun-Lin Liao, Yen-Chun Lo, Ru-Ci Huang
TX073	Toxic effect of the silver nanoparticles with different shape in food packaging materials triggered-autophagy dysfunction in liver 陳育瑩 , 王應然 Jui-Chun Kuo, Zi-Yu Chen, Ying-Jan Wang
TX074	Synergistic anticancer and antibacterial effects of novel regimens of phytopolyphenols and repurposing drugs on cultured cells. 王應然 , 蕭水銀 YuYing Chen, YingJan Wang
TX075	The effects and mechanisms of 3,4-Dihydroxybenzalacetone against ultraviolet B radiation-induced photodamage in vitro 陳筠喬 , 柳瑜軒 , 王羿喬 , 紀依禕 , 呂佳陵 , 廖曉芳 , 郭悅雄 , 江秀梅 Ying-Jan Wang, Shoei-Yn Lin-shiau

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TX076	BPR2P001S0 Targets MYC/MTHFD2 Axis Against Human Squamous Cell Carcinoma 李立璿 , 江士昇 , 謝興邦 , 張壯榮 , 郭靜娟 Yun-Chiao Chen, Yu-Hsuan Liu, I-Chiao Wang, Yi-Yi Chi, Jia-Ling Lyu, Hsiao-Fang Liao, Yueh-Hsiung, Kuo, Hsiu-Mei Chiang
TX077	An Investigation of Self-Medication and Related Adverse Drug Events in Middle-aged and Elderly Patients in the Community 吳昀霈 , 林英琦 Wu, Yun-Pei, Lin, Ying-Chi
TX078	Cisplatin-Loaded Nanomedicine Enhances Radiosensitivity by Inducing Ferroptosis and Autophagy Dysfunction via Impairment of Lysosomes in Triple-Negative Breast Cancer 葉雅玲 , 陳家怡 , 王應然 Ya-Ling Yeh, Chia-Yi Chen, Ying-Jan Wang
TX079	Exosomal MicroRNA Derived from Oral Squamous Cell Carcinoma Promotes Angiogenesis 黃家昀 , 吳冠勳 , 周松濤 , 夏興國 Chia-Yun Huang, Guan-Hsun Wu, Sung-Tau Chou, Shine-Gwo Shiah
TX080	Investigating the synergistic toxicity of cadmium in combination with Ag NPs or ZnO NPs 黃國清 , 潘娟利 , 陳容甄 , 王應然 Kuo-Ching Huang, Rosita Pranata, Rong-Jane Chen, Ying-Jan Wang
TX081	Investigation of SIRT2 inhibitor to identify potential drugs against kidney disease 蘇睿昱 , 黃泓縉 , 劉文治 , 邱惠雯 Ruei-Yu Su, Hung-Jin Huang, Wen-Chih Liu, Hui-Wen Chiu
TX082	IXA4, a selective XBP1s inducer, ameliorates AKI to CKD-related renal fibrosis 陳文怡 , 陳佳煌 , 江采蓁 , 姜至剛 , 黃政文 , 洪冠予 Wen-I Chen, Jia-Huang Chen,Tsai-Chen Chiang, Chih-Kang Chiang, Jenq-Wen Huang, Kuan-Yu Hung
TX083	Deletion of KLF10 Gene Aggravates Nonalcoholic Fatty Liver Disease in High Sucrose Diet and Liver Damage is Reversed by Cordycepin 許恆瑄 , 陳容甄 Heng-Hsuan, Hsu, Rong-Jane, Chen
TX084	以 OECD 規範之替代測試進行化學物質毒理試驗完成既有化學物質標準登錄 王應然 , 陳容甄 , 廖芸郁 , 陳思寧 , 曾家琪 , 陳育瑩 , 鄭詠璇 , 葉雅玲 , 呂琹晴 , 陳姿羽 , 李子寧 , 劉淑恩 Ying-Jan Wang, Rong-Jane Chen, Yun-Yu Liao, Ssu-Ning Chen, Chia-Chi Tseng, Yu-Ying Chen, Yung-Hsuan Cheng, Ya-Ling Yeh, Chin-Ching Lu, Zi-Yu Chen, Tzu-Ning Li, Olivia Lautan

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PY001	The Combinative Effect of Curcumin and Imiquimod on Orthotopic Murine Model of Bladder Cancer 張吉媚 , 邱雅鈴 , 林志學 , 王宗偉 Cat My Truong, Ya-Ling Chiou, Chih-Hsueh Lin, Tsung-Wei Wang
PY002	Exploring potential therapeutic markers in UTUC: key tumor-suppressing gene expression and clinical applications 彭瑞銘 , 翁郁婷 , 羅佳紋 , 王貝嘉 Jei-Ming Peng, Yu-Ting Weng, Jia-Wun Luo, Pei-Chia Wang
PY003	Invasive pathobiont upregulated intestinal epithelial Wnt and Hippo-related pathways and promoted cancer development in mice 林家賢 , 胡文絜 , 彭郁雯 , 李憶萱 , 賴亮全 , 魏淑鈐 , 倪衍玄 , 余佳慧 Chia-Hsien Lin, Wen-Jie Hu, Yu-Wen, Peng, Yi-Hsuan Li, Liang-Chuan Lai, Su-Chen Wei, Yen-Hsuan Ni, Linda Chia-Hui Yu
PY004	Anti-Proliferative, Anti-Metastasis, and Pro-Apoptotic Effects of CEO on B16F10 Melanoma Cells 李孟樵 , 張凱復 , 陳依依 , 林采諭 , 田妃 , 蔡女滿 Meng-Chiao Lee, Kai-Fu Chang, Yi-Yi Chen, Tsai-Yu Lin, Fei Tian, Nu-Man Tsai*
PY005	The effect of Galectin-3 on hypoxia mediated drug resistance in cancer treatment. 張芷璇 , 劉蕙溥 , 莊博凱 , 李永國 Chih-Hsuan Chang, Hui-Pu Liu, Po-Kai Chuang, Yung-Kuo Lee
PY006	Deciphering the Role of DNMT3A in Enhancing Chronic Myeloid Leukemia Therapy: Insights into BCL-2-Beclin-1 Interactions, Autophagy, and Metabolic Regulation 黃蒨文 , 林庭安 , 張原翊 Qian-Wen Huang, Ting-An Lin, Yuan-I Chang
PY007	Evaluating the potential benefits in HCC by using combination therapy of Glut1 or Gal-3 inhibitors with TACE 劉蕙溥 , 張芷璇 , 儲天輝 , 李永國 Hui-Pu Liu, Chih-Hsuan Chang, Tian-Huei Chu, Yung-Kuo Lee
PY008	Role of PTEN in the efficacy of sorafenib in hepatocellular carcinoma 林哲宇 , 戴明泓 Zhe-Yu Lin, Ming-Hong Tai
PY009	Regulation of exosomal miR-320d/FAM49B axis by GBP5 promotes cell growth and tumor progression in oral squamous cell carcinoma 龔湘鈐 , 李政昕 , 徐志文 , 陳竣峰 , 劉佩芬 Hsiang-Chien Kung, Cheng-Hsin Lee, Chih-Wen Shu, Chun-Feng Chen, Pei-Feng Liu
PY010	The Collaborative Influence of YAP1 and its Associated Long Non-Coding RNA on Colon Cancer Progression 陳冠蓁 , 林逸宣 , 林世杰 Guan-Jen Chen, Yi-Syuan Lin, Shih-Chieh Lin
PY011	Decoding the Enigmatic Role of SLFN5 in Colorectal Adenocarcinoma, Unraveling Intricate Connections with Chemotherapy, Tumor Microenvironment, and Immune Regulation 趙健呈 , 吳岳嶸 , 陳東源 , 李永國 Chien-Cheng Chao, Yuen-Jung Wu, Tung-Yuan Chen, Yung-Kuo Lee

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PY012	Effects of a novel USP20 inhibitor on Anaplastic thyroid cancer 賴柏睿 , 徐松柏 Po-Jui Lai, Sung-Po Hsu
PY013	Carcinoembryonic antigen-related cell adhesion molecule 6 (CEACAM6) promotes epithelial growth factor receptor (EGFR) signaling of colorectal cancer progression through increasing EGFR protein stability 葉志文 , 蔡耀宗 , 吳明恆 Yap Chee Voon, Yao-Tsung Tsai, Ming-Heng Wu
PY014	HP1a-mediated heterochromatin formation suppresses high dietary sugar (HDS)-induced cancer cachexia 曾靖雯 , 張哲維 , 顏賢章 Jing-Wen Tseng, Che-Wei Chang, Shian-Jang Yan
PY015	Un-methylation of NUDT21 promotes the development of enzalutamide resistance in prostate cancer by repression of cuproptosis 林新智 , 林世杰 Shin-Chih Lin, Shih-Chieh Lin
PY016	Investigates the role of Exosomes in Dasatinib treated HT29 colon cancer cells 辜慧敏 , 趙偉廷 Hui Min Koo, Wei-Ting Chao
PY017	Effects of synthetic Danshen compounds on growth, apoptosis and autophagy of prostate cancer cells 李姿慧 , 鄭敬楓 , 古惠珍 , 高永旭 Tzu-Hui Li, Ching-Feng Cheng, Hui-Chen Ku, Yung-Hsi Kao
PY018	Hypoxia-Induced Mitochondrial Glutathione Transporter Expression Causing Drug Resistance in Colorectal Cancer 林璟純 , 林逸宣 , 林世杰 Chin-Chun Lin, Yi-Syuan Lin, Shih-Chieh Lin
PY019	Template-based capsid design of oncolytic rAAVs for targeting of selective human cancers 林鈺婕 , 江奕勳 , 翁晨紘 , 梁文俞 , 謝霖翔 , 邱光裕 Yu-Chieh Lin, I-Hsun Chiang, Chen-Hong Weng, Wen-Yu Liang, Lin-Hsiang Hsieh, Guang-Yuh Chiou
PY020	Keratin fusion K6-K14/V7 promotes cancer invasiveness via cell-to-cell education and tumor microenvironment remodeling 林彥廷 , 郭育廷 , 黃珮嘉 , 黃亮媗 , Kalpana Sriramadasu, 許晉銓 Leo Yen-Ting Lin, Brian Yu-Ting Kuo, Tritium Hwang, Vanessa Liang-Hsuan Huang, Kalpana Sriramadasu, Jim Jinn-Chyuan Sheu
PY021	Characterizing Circular RNA CircACVR2A in Non-Small Cell Lung Cancer 林俐妤 , 賴亮全 Li-Yu Lin, Liang-Chuan Lai
PY022	Novel mitochondrial complex I inhibitor as mitocan for tumor suppressions 梁文俞 , 江奕勳 , 劉彥汶 , 林鈺婕 , 黃鉦越 , 王雲銘 , 邱光裕 Wen-Yu Liang, I-Hsun, Chiang, Chen-Wei Leong, Yen-Wen Liu, Yu-Chieh Lin, Cheng-Yueh Huang, Yun-Ming Wang, Guang-Yuh Chiou
PY023	Rejuvenation of anti-cancer response by immune checkpoint blockade using multifunctional nanoparticles 林品瑜 , 吳敏嘉 , 劉懿璇 Pin-Yu Lin, Min-Chia Wu, Yi-Shiuan Liu

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PY024	The effect of Antrodia Salmonea extract on the epithelial-mesenchymal transition and cancer stemness properties in human prostate cancer through STAT3 regulation. 謝利克 , 吳志鴻 , Chang, Ting-Chieh, 林赫 Ayse Celik, Jyh-Horng Wu, Ting-Chieh Chang, Ho Lin
PY025	Blue light exposure stimulates the release of inflammatory cytokines through induce-retinal endothelial cell activation. 賴宜廷 , 詹燕茹 , 溫宏諾 , 楊宗珉 , 李青澔 Yi-Ting Lai, Yen-Ju Chan, Wang-Nok Wan, Tsung-Min Yang, Ching-Hao Li
PY026	Adipose-derived mesenchymal stem cells-conditioned medium modulates the expression of inflammation induced bone mor-phogenetic protein-2, -5 and -6 as well as compared with shockwave therapy on rat knee osteoarthritis 鄭再宏 , 詹舜文 , 徐歷彥 Jai Hong Cheng, Shun-Wun Jhan, Li-Yen Shiu
PY027	Sublethal bisphenol A attenuates TLR4 signaling by activating the ROS/Nrf2-Keap1/HO-1 axis, leading to defective immune/inflammatory responses in microglia 李靜恬 , 黃郁臻 , 王志煜 Ching-Tien Lee, Yu-Zhen Huang, Jiz-Yuh Wang
PY028	Characterization and Advancement of an Evaluation Method for the Treatment of Spontaneous Osteoarthritis in STR/ort Mice: GRGDS Peptides as a Potential Treatment for Osteoarthritis 吳佳芸 , 張毓翰 , 胡志堅 , 徐永衡 , 邱于恬 , 陳凱琳 , 翁文能 , 陳美鳳 Chia-Yun Wu, Yuhan Chang, Chih-Chien Hu, Yung-Heng Hsu, Yu-Tien Chiu, Kai-Lin Chen, Steve W. N. Ueng, Mei-Feng Chen
PY029	The role of EDIL3 in maintaining cartilage extracellular matrix and inhibiting osteoarthritis development 吳佳芸 , 張毓翰 , 胡志堅 , 徐永衡 , 林郁智 , 陳凱琳 , 翁文能 , 陳美鳳 Chia-Yun Wu, Yuhan Chang, Chih-Chien Hu, Yung-Heng Hsu, Yu-Chih Lin, Kai-Lin Chen, Steve W. N. Ueng, Mei-Feng Chen
PY030	Betaine Alleviates Gut Barrier Inflammation via TLR4 Signaling and Ly6C+ Monocytes and Kupffer Cells Regulate Liver Immune Responses to Prevent DSS-Induced Colitis and Related Liver Damage 范沛涵 , 郭賀喻 , 陳筱萍 , 蔡鎧鴻 , 蔡睿辰 , 鄭祺臻 , 吳莉玲 Pei-Han Fan, He-Yu Kuo, Hsiao-Ping Chen, Kai-Hung Tsai, Jui-Chen Tsai, Li-Ling Wu
PY031	CCR5 Exhibits Dual Influences on MDSC Generation and Function 陳碩文 , 王品云 , 初昭瑄 , 林長億 , 張原翊 Shuoh-Wen Chen, Pin-Yun Wang, Chao-Hsuan Chu, Eric Chang-Yi Lin, Yuan-I Chang
PY032	Sex differences in acute and chronic visceral pains 覃泯涵 , 游一龍 Min-Han Chin, Lung Yu, Ph.D.
PY033	Galectin-1 Regulates TNFα-TNFR1 Mediated Inflammatory Signaling Though Interacting and Clustering TNFR1. 蔡耀宗 , 葉志文 , 吳明恒 Yao-Tsung Tsai, Chee-Voon Yap, Ming-Heng Wu
PY034	Low expression of SNAREs in antigen-presenting cells causes immune dysregulation in the elderly after single-strand GU-rich viral RNA infection 吳豫宣 , 張原翊 Yu-Xuan Wu, Yuan-I Chang

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PY035	Peripheral TRPML2+ fast recycling endosomes are involved in host resistance to live pathogens 王媗棣 , 林倩如 , 顧子奇 , 劉睦琳 , 蔡雨寰 , 陳政彰 Hsuan-Ti Wang, Alice C. Lin, Zi-Qi Gu, Mu-Lin Liu, Yu-Huan Tsai, Cheng-Chang Chen
PY036	NKG2D Ligand Upregulation by Pemetrexed Boosts γδ T Cytotoxicity against NSCLC cells 洪孟愉 , 周德陽 , 邱紹智 , 林赫 , 陳美智 Meng-Yu Hung, Der-Yang Cho, Shao-Chih Chiu, Ho Lin, Mei-Chih Chen
PY037	Adipocyte-specific CCR5 deletion facilitates diet-induced thermogenesis and protects high-fat diet-induced obesity and insulin resistance in mice 黃向陽 , 詹沛祺 , 農君怡 , 謝博軒 Hsiang-Yang Huang, Pei-Chi Chan, Jiun-Yi Nong, Po-Shiuan Hsieh
PY038	Dentate Gyrus Cannabinoid Receptor Activation Attenuates Hippocampal Information Transmission Via Reduction of GABA Release 李育叡 , 葉家維 , 林昱伶 , 吳哲瑋 , Wahab Imam Abdulmajeed, Musalyiola Ajibola, 連正章 Yu-Jui Li, Chia-Wei Yeh, Yu-Ling Lin, Jei-Wei Wu, Wahab Imam Abdulmajeed, Musalyiola Ajibola, Cheng-Chang Lien
PY039	Overexpression of NPFFR2 in the arcuate nucleus of the hypothalamus leads to impaired insulin sensitivity and aggravates metabolic abnormalities in a mouse model of type 2 diabetes 蔡思綺 , 吳冠宣 , 林雅婷 Sze-Chi Tsai, Kuan-Hsuan Wu, Ya-Tin Lin
PY040	Intestinal epithelium ZO-1 determines mitotic spindle orientation to repair mucosa involving YBX3 and cytoskeletal binding proteins 張映捷 , 蔡依璇 , 郭瑋庭 Ying-Chieh Chang, Yi-Syuan Tsai, Wei-Ting Kuo
PY041	Exploring the Function and the post-translational modification of CD63 in Pancreatic Ductal Adenocarcinoma 蕭凱晉 , 王竹安 , 蔡少正 Kai-Jin Xiao, Chu-An Wang, Shaw-Jenq Tsai
PY042	Therapeutic efficacy and mechanism of norepinephrine on cardiorespiratory function following mid-cervical spinal cord contusion in the rat. 陳叡怡 , 李昆澤 Rui-Yi Chen, Kun-Ze Lee
PY043	Phyllanthus Emblica Fruit Extract Modulates Gut-Liver Axis to Ameliorate Obesity and Non-Alcoholic Fatty Liver Disease in High-Fat Diet-Induced Mice 張芮瑄 , 邱韋中 , 黃琤 Jui-Hsuan Chang , Wei-Chung Chiou , Cheng Huang
PY044	A Comprehensive Hematopoietic Analysis to Decipher the Role of Hematopoiesis and Immune Response in Migraine Pathogenesis 蘇鈺茹 , 楊博元 , 陳世彬 , 張原翊 Yu-Ju Su, Bo-Yuan Yang, Shi-Bin Chen, Yuan-I Chang
PY045	Circular RNA CircACTN4 Promotes the Malignancy of Non-Small Cell Lung Cancer via Regulation of the Cell Cycle Pathway 黃照穎 , 賴亮全 Chao-Ying Huang, Liang-Chuan Lai

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PY046	Intestinal occludin activates apoptotic caspase-3 by blocking TGFβ/SMAD3 to maintain epithelial homeostasis 林家瑩 , 張映捷 , 郭瑋庭 * Chia-Ying Lin, Ying-Chieh Chang, Wei-Ting Kuo*
PY047	Roles of intestinal microbes in epithelial CD44 upregulation and tumor growth of Apc(Min/+) mice 胡珮慈 , 彭郁雯 , 廖予謙 , 李憶萱 , 魏淑鈐 , 倪衍玄 , 余佳慧 Pei-Tzu Hu, Yu-Wen Peng, Yu-Chien Liao, Yi-Hsuan Li, Su-Chen Wei, Yen-Hsuan Ni, and Linda Chia-Hui Yu
PY048	Effect of endonuclease VIII-like 1 (NEIL1) deficiency on cardiac function 黃朝煒 , 陳珮君 Chao-Wei Huang, Pei-Chun Chen
PY049	Dysregulation of endometrial ciliogenesis by interleukin-1β impairs decidualization in women with endometriosis 陳奕蓁 , 侯奐慈 , 吳孟興 , 蔡少正 Yi-Jhen Chen, Huan-Tzu Hou, Meng-Hsing Wu, Shaw-Jenq Tsai
PY050	The Interaction between Macrophage and Pancreatic Cancer Cells: Unveiling Immune Escape Mechanisms through Single-Cell RNA Sequencing 沈倢 , 侯雅琴 , 王竹安 Chieh Shen, Ya-Chin Hou, Chu-An Wang
PY051	FKBP51-NFκB inhibition ameliorates inflammatory astrogliosis and neuronal damage in the ischemic brain injury in vitro model 黃偉瑄 , 甘育菱 , 洪家琪 , 許珮蒨 , 黃昱傑 , 周家丞 , 李怡萱 Wei-Hsuan Huang, Yu-Ling Gan, Chia-Chi Hung, Pei-Chien Hsu, Yu-Jie Huang, Chia-Cheng Chou, Yi-Hsuan Lee
PY052	Effects of plant extracts on lipid accumulation in cells 盧惠萍 Hui-Pin Lu
PY053	The effects of ESL, a blend of essential oils, on energy balance in the human body analyzed by Meridian Energy Analysis Device 陳依依 , 張凱復 , 李孟樵 , 林采諭 , 田妃 , 蔡女滿 Yi-Yi Chen, Kai-Fu Chang, Meng-Chiao Lee, Tsai-Yu Lin, Fei Tian, Nu-Man Tsai
PY054	The lipogenesis and adipocytokines level of 3T3-L1 adipocytes are changed by nano-PVC. 吳敦揚 , 張育彤 , 楊宗珉 , 蕭伊倫 , 李青澔 Dun-Yang Wu, Yu-Tung Jhang, Tsung-Min Yang, I-Lun Hsiao, Ching-Hao Li
PY055	Activation of ESCRT-pathway is associated with the aberrant exosome biogenesis and miRNA sorting in diabetic cardiomyopathy 黃君邦 , 張智鈞 , 謝福謙 , 洪麗滿 Jiung-Pang Huang, Chih-Chun Chang, Fu-Chien Hsieh, Li-Man Hung
PY056	Enhancing butyrate ameliorates the maternal high fructose diet-impaired cortical myelin- and synaptic-plasticity in middle-age 洪純瑛 , 吳志偉 , 陳怡君 , 吳芎歷 Chun-Ying Hung, Chih-Wei Wu, I-Chun Chen, Kay L.H. Wu

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PY057	Exosomes derived from Taurine treated mesenchymal stem cells regulate inflammasome axis to repair diabetic cardiomyopathy 高子霖 , 陳冬生 Tzu-Lin Kao, Tung-Sheng Chen
PY058	Using trigonelline pretreated mesenchymal stem cells rescue diabetic hepatopathy by regulating imbalance of mitochondria dynamics 詹沁璇 , 陳冬生 Chin-Hsuan Chan, Tung-Sheng Chen
PY059	Allo-transplantation of UCP1/CCR5 double-deleted brown adipose tissue improves energy expenditure in cold-intolerant UCP1 knockout mice 黃偉翔 , 詹沛祺 , 謝博軒 Wei-Hsiang Huang, Pei-Chi Chan, Po-Shiuan Hsieh
PY060	異丙黃酮強化幹細胞調控粒線體動態平衡救援老化肝臟 周嘉妡 , 陳冬生 Chia-Hsin Chou, Tung-Sheng Chen
PY061	Investigating the effect of alpha-lipoic acid on the adipocyte dysfunction induced by indoxyl sulfate and the underlying mechanism 王崇百 , 楊翔宇 , 鄭寶雲 Chung-Bai Wang, Hsiang-Yu Yang, Pao-Yun Cheng
PY062	Impact of CCR5 on Metabolic Processes in Differentiated and Undifferentiated C2C12 Muscle Cells 徐佑妮 , 呂婕如 , 歐芃玲 , 張原翊 Yu-Ni Hsu, Jie-Ru Lu, Peng-Ling Ou, Yuan-I Chang
PY063	Matrix rigidity controls nuclear translocation of RhoA and inflammatory gene expression in the adipocyte 張郁婕 , 陳玉心 , 蔡曜聲 Yu-Chieh Chang, Yu-Hsin Chen, Yau-Sheng Tsai
PY064	Effect of green tea epigallocatechin gallate on autophagy of beige preadipocyte 林采宜 , 郭芝君 , 石麗珍 , 鄭敬楓 , 古惠珍 , 高永旭 Cai-Yi Lin1, Chin-Chun Kuo, Li-Jane Shih, Ching-Feng Cheng, Hui-Chen Ku, Yung- Hsi Kao
PY065	NPFFR2 overexpression aggravates lipid accumulation in the liver and white adipose tissue induced by obesity. 廖允柔 , 蔡思綺 , 林雅婷 Yun-Jou Liao, Sze-Chi Tsai, Ya-Tin Lin
PY066	Does D2 receptor modulate morphine's paradoxical effect in conditioned taste aversion and conditioned place preference learning during the acquisition phase? 劉人瑄 , 蔡羽柔 , 黃智偉 * Jen-Shiuan Liu, Yu Rou Cai, and Andrew Chih Wei Huang*
PY067	Mediations of GABAa and dopamine systems in ethanol-induced conditioned aversive and rewarding learning and the involvements of neural substrates in rats 吳承恩 , 林宇晨 , 吳笛滋 , 葉芷伶 , 趙堂系歷 , 黃智偉 Cheng En Wu, Yu Cheng Lin, Di Zi Wu, Chih-Ling Yeh, Tang-Li Chao, Andrew Chih Wei Huang
PY068	Metabotropic glutamate receptor 5 mediates post-traumatic stress disorder symptoms on extinction phase 蔡羽柔 , 黃智偉 Yu Rou Cai, Andrew Chih Wei Huang

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PY069	Environmental enrichment and morphine addiction in mice 潘靖怡 , 黃智偉 Jing Yi Pan, Andrew Chih Wei Huang
PY070	Elucidations of different environmental enrichment for ameliorating amphetamine-induced behavioral sensitization in mice 鄭凱恩 , 吳少傑 , 黃智偉 * Cai-N Cheng, Shaw-Jye Wu, Andrew Chih Wei Huang *
PY071	Assessments of Akkermansia muciniphila in depression and cognitive behaviors in rats 馬琬珺 , 黃智偉 Wan Jiun Ma, Andrew Chih Wei Huang
PY072	Modulations of D2 receptors in PTSD's fear behavior and elucidations of neuroinflammation IL-1b proteins in the medial prefrontal cortex, nucleus accumbens, amygdala, and hippocampus 洪沛濬 , 劉人瑄 , 黃智偉 Pei-Jui Hung, Jen-Shiuan Liu, and Andrew Chih Wei Huang
PY073	Examinations of footshock-induced traumatic events alter the rewarding and aversive effect of morphine in the prelimbic cortex and basolateral amygdala by optogenetic approaches 張方誌 , 余英豪 , 黃智偉 Fang Chih Chang, Ying Hao Yu, and Andrew Chih Wei Huang
PY074	Evaluation of the Clinical Rating Scale for Tremor as a differential diagnosis between essential tremor and Parkinson's disease 潘伊薇 , 賴慧津 , 李昆洪 , 吳鑫茹 , 吳佩翰 , 張維傑 Yi-Wei Pan, Hui-Chin Lai, Kun-Hong Li, Hsing-Ju Wu, Pei-Han Wu, Wei-Chieh Chang
PY075	Whether Plukenetia volubilis L. oil administrations change depression, locomotion, and anxiety behaviors in female rats? 洪藝瑋 , 黃智偉 Yi-Wei Hung and Andrew Chih Wei Huang*
PY076	BTRX-246040 acts through the ventrolateral periaqueductal gray to exert antidepressant-relevant actions in mice Zhenlong Li, Yuanyuan Xu, Rourou Li, Zhenyu Sheng, Xinya Chen, Xueman Liu, Chau-Shoun Lee, Hsien-Yu Peng, Tzer-Bin Lin, Ming-Chun Hsieh, Cheng-Yuan Lai, Han-Fang Wu, Dylan Chou
PY077	Methylone produces antidepressant-relevant actions and prosocial effects Zhenlong Li, Hsien-Yu Peng, Chau-Shoun Lee, Tzer-Bin Lin, Ming-Chun Hsieh, Cheng-Yuan Lai, Han-Fang Wu, Lih-Chyang Chen, Mei-Ci Chen, Dylan Chou
PY078	Blue light at night produces stress-evoked heightened aggression by enhancing brain-derived neurotrophic factor in the basolateral amygdala Zhenlong Li#, Chau-Shoun Lee#, Si Chen, Benyu He, Xinya Chen, Hsien-Yu Peng, Tzer-Bin Lin, Ming-Chun Hsieh, Cheng-Yuan Lai, Dylan Chou
PY079	Glucocorticoid is involved in lights at night (LANs)-mediated depression-like behavioral and molecular phenotypes in male rats Zhenlong Li#, Chau-Shoun Lee#, Hsien-Yu Peng, Tzer-Bin Lin, Ming-Chun Hsieh, Cheng-Yuan Lai, Dylan Chou

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PY080	Social environmental enrichment modulates PTSD-induced depression and anxiety behaviors and assessments of neuroinflammation interleukin-1 beta in the medial prefrontal cortex, amygdala, and hippocampus in the animal model 尤奕竣 , 黃智偉 * Yi Chun Yu, Andrew Chih Wei Huang*
PY081	Elucidations of the ventral tegmental area and periaqueductal gray matter in morphine's reward and aversion 林宇晨 , 吳季文 , 歐貞吟 , 余英豪 , 尤奕竣 , 徐百川 , 黃智偉 Yu Cheng Lin, Chi-Wen Wu, Chen Yin Ou, Ying Hao Yu, Yi Chun Yu, Bai Chuang Shyu, Andrew Chih Wei Huang
PY082	The Role of Estrogen in nociceptive pain transmission Sana Saeed, 伊瑞福 , 林恂恂 , 賴志嘉 Sana Saeed, Md Sharyful Islam, Hsun-Hsun Lin, Chih-Chia Lai
PY083	Effects of SUX on Neurogenesis in the SVZ in an Parkinson's Disease Rat Model: Modulation of GABA and Glutamate Levels in Striatum 黃柔熏 , 楊善鈞 , 潘祥昕 , 謝詩詩 , 龔映慈 , 呂艾倪 , 何應瑞 Jou-Hsun Huang, Shan-Chun Yang, Hsiang-Hsin Pan, Kelly Claudia Suhaili, Ying-Tzu Kung, Luy ai ni,Ying-Jui Ho
PY084	The Antiepileptic and Neuroprotective Effects of SUX in a PTZ-Induced Rat Model 呂艾倪 , 楊善鈞 , 潘祥昕 , 黃柔熏 , 何應瑞 Ai-Ni Lyu, Shan-Chun Yang, Hsiang-Hsin Pan, Jou-Hsun Huang, Ying-Jui Ho
PY085	Aberrant Orbitofrontal Cortex Activation Level on Context-Specific Fear Encoding 劉宇叡 , 張鈞惠 Yu-Rui Liu, Chun-hui Chang
PY086	Deciphering the Mechanistic Insights of C9orf72 in the Pathogenesis of Huntington's Disease 曾秀珍 , 楊尚訓 Siew Chin Chan, Shang-Hsun Yang
PY087	The O-linked Glycosylation of TPC2 channel is critical for lysosomal nanodomain calcium signaling 林倩如 , 林能裕 , 陳政彰 Alice Chien-Ju Lin, Neng-Yu Lin, Cheng-Chang Chen
PY088	The effect of tranexamic acid on spinal hemorrhage and extravasation following acute mid-cervical contusion in the rat 陳緯宸 , 李昆澤 Wei-Chen Chen, Kun-Ze Lee
PY089	Exploring the immunomodulatory potential of interferon-beta in alleviating intracerebral hemorrhage 謝佩穎 , 胡瑋芬 , 馮清榮 , 劉晉宏 , 廖學健 Pei-Ying Cheah, Wei-Fen Hu, Cheng-Yoong Pang, Chin-Hung Liu, Hock-Kean Liew
PY090	Effects of Cerebellar Hemorrhage on Neuroimmune Modulation: Exploring Cognitive Impairment via Microglial Activation 施沐葶 , 韓佩宸 , 曾翌璇 , 胡瑋芬 , 喻筱琪 , 劉欣茹 , 廖學健 Mu-Ting Shih, Pei-Chen Han, Yi-Hsuan Tseng, Wei-Fen Hu, Hsiao-Chi Yu, Hsin-Ru Liu, Hock-Kean Liew

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PY091	Sophoraflavanone G, a natural brain protective compound, attenuates TNF-✓-induced MMP-9-mediated events in brain microvascular endothelial cells 曾惠卿 , 張家慈 , 謝喜龍 Hui-Ching Tseng, Jia-Ci Chang, Hsi-Lung Hsieh
PY092	Regulates expression of paraspeckle complex by matrix stiffness in TGFβ1-induced epithelial mesenchymal transition or growth inhibition 魏丞雋 , 黃曉寧 , 湯銘哲 Cheng-Chun Wei, Hsiao-Ning Huang, Ming-Jer Tang
PY093	Autophagy in microglia mediates ischemia/reperfusion-induced phenotypic transition 謝愷和 , 張雅雯 Kai-Ho Hsieh, Alice Y. W. Chang
PY094	The Cardioprotective Potential of Nerolidol Against Myocardial Ischemia-Reperfusion Injury in Rats 王羿忻 , 黃相碩 , 廖娟妙 Yi-Hsin Wang, Shiang-Suo Huang, Jiuan-Miaw Liao
PY095	Experimental Cerebral Ischemia in a Mouse Model of Beta-Thalassemia 孫羽佑 , 郭金霖 , 李佩珊 Yu-Yo Sun, Chin-Lin Kuo, Pei-Shan Li
PY096	Functional roles of CD44 in inhibition of matrix degradation in NRK-49F cells 鄧暐翰 , 湯銘哲 Wei-Han Deng, Ming-Jer Tang
PY097	The study of AAV-mediated Del-1 expression in therapeutic application of Fibrotic diseases 吳爭融 , 王啟宇 , 楊智凱 , 謝尚卿 , 方誠傑 , 吳依亭 , 黃書鴻 Cheng-Jung Wu, Chi-Yu Wang, Chih-Kai Yang, Shang-Ching Hsieh, Cheng-Chieh Fang, Yi-Ting Wu, Huang Shu-Hung
PY098	The motor evoked potential of diaphragm and biceps with respiratory phase-dependent trans-spinal magnetic stimulation in healthy males 任明月 , 李昆澤 Ming-Yue Ren, Kun-Ze Lee
PY099	Hypersensitivity of pulmonary chemoreflex responses induced by methylglyoxal in rats 吳則賢 , 蕭培俞 , 賴靜蓉 Tse-Hsien Wu, Pei-Yu Xiao, Ching Jung Lai
PY100	Discovery of HDAC6, HDAC8, and 6/8 Inhibitors and Development of Cell-Based Drug Screening Models for the Treatment of TGF-β-Induced Idiopathic Pulmonary Fibrosis 葉致宏 , 尤韋傑 , 葉宗祐 , 莊俊廷 , 何宜洵 , Dorothy Kazuno So, 葉嘉意 , 彭冠儒 , 邵麒軒 , Ajit Dhananjay Jagtap, 陳基旺 , 林辰栖 , 林劭品 , 林水龍 , 余兆武 , 游舒涵 Chih-Hung Ye, Wei-Chieh Yu, Tsung-Yu Yeh, Patrick Chun Theng Chong, Yi-Hsun Ho, Dorothy Kazuno So, Kah Yi Yap, Guan-Ru Peng, Chi-Hsuan Shao, Ajit Dhananjay Jagtap, Ji-Wang Chern, Chen-Si Lin, Shau-Ping Lin, Shuei-Liong Lin, Chao-Wu Yu, Shu-Han Yu
PY101	Oral Oligo Fucoidan Attenuates TGF-b1 Expression in Amiodarone Induced Pulmonary Fibrosis Mouse 黃鈺凱 , 邱雅鈴 , 劉杜鎮 , 林志學 Yu-Kai Huang, Ya-Ling Chiou, Tu-Chen Liu, Chih-Hsueh Lin

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PY102	Effects of SUX on behavioral and neuronal deficits in an MPTP-induced rat model of Parkinson's disease dementia 楊善鈞 , 黃柔熏 , 呂艾倪 , 潘祥昕 , 龔映慈 , 謝詩詩 , 姚景宜 , 何應瑞 Shan-Chun Yang, Jou-Hsun Huang, Ai Ni Lyu, Hsiang Hsin Pan, Ying Tzu Kung, Kelly Claudia Suhaili, Jin-Yi Yao, Ying-Jui Ho
PY103	Maternal high-fat diet results in autism-like behaviors in mouse offspring 黃致維 , 陳冠儒 , 郭保麟 Chih-Wei Huang, Kuan-Ru Chen, Pao-Lin Kuo
PY104	Investigate the Role of IGF2 for Degradation of Aggregates Through AKT Pathway in Huntington's Disease 童筠璇 , 楊尚訓 Yun-Shiuan Tung, Shang-Hsun Yang
PY105	Using the Light Dark Choice Test to Examine the Locomotor Responses of Taiwanese Field Mice 楊淑娟 , 謝坤叡 Shu-Chuan Yang, Kun-Ruey Shieh
PY106	Investigating the protective mechanism of SIRT1 against paraquat-induced toxicity: An in vitro study using SRT1720 as a SIRT1 activator in treating Parkinson's disease 林芳媛 黃春霖 黃乃瑰 Fang-Yuan Lin, Chuen-Lin Huang, Nai-Kuei Huang
PY107	An investigation of the roles D3R plays in regulating dopaminergic neurons in Levodopa-induced dyskinesia 張寶文 , 陳珮君 Pao-Wen Chang, Pei-Chun Chen
PY108	Manipulations of KATP channels in brown adipose tissue or dopaminergic neurons influence the development of depression comorbid with metabolic disorders 李培瑜 , 陳珮君 Pei-Yu Li, Pei-Chun Chen
PY109	The transcription factor Tbx5-dependent epigenetic modification contributes to neuropathic allodynia by activating TRPV1 expression in dorsal horn 賴政遠 , 謝明君 , 周迪侖 , 林冠宏 , 王學孝 , 楊博勝 , 林則彬 , 彭賢祐 Cheng-Yuan Lai, Ming-Chun Hsieh, Dylan Chou, Kuan-Hung Lin, Hsueh-Hsiao Wang, Po-Sheng Yang, Tzer-Bin Lin, Hsien-Yu Peng
PY110	Fbxo3/HIPK2 mediates CtBP1-dependent epigenetic mechanisms in the DRG contributing to the development of neuropathic pain 謝明君 , 賴政遠 , 周迪侖 , 王學孝 , 倪曉彤 , 陳美錡 , 陳安旂 , 林則彬 , 彭賢祐 Ming-Chun Hsieh, Cheng-Yuan Lai, Dylan Chou, Hsueh-Hsiao Wang, Siao-Tong Nie, Mei-Ci Chen, An-Chi Chen, Tzer-Bin Lin, Hsien-Yu Peng
PY111	菸鹼醯胺單核苷酸對戊四唑誘發的斑馬魚腦部節律器通道的保護作用 黃臣華 , 林美慈 , 李哲沛 , 韋玟旭 , 林彥昌 Shan-Yen Ho, Mei-Tzu Lin, Chun-Pei Li, Wen-Xu Wei, Yen-Chang Lin
PY112	Rescue effect of pentylenetetrazol-inducd seizures on heart brain pacemaker channel in zebra fish via administration of NMN 王瀚權 , 林美慈 , 李哲沛 , 韋玟旭 , 林彥昌 Han-Chuan Wang, Mei-Tzu Lin, Chun-Pei Li, Wen-Xu Wei, Yen-Chang Lin
PY113	The effect and mechanism of NMN on PTZ-induced brain abnormalities in zebrafish 何姍晏 , 林美慈 , 李哲沛 , 韋玟旭 , 林彥昌 Shan-Yen Ho, Mei-Tzu Lin, Chun-Pei Li, Wen-Xu Wei, Yen-Chang Lin

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PY114	Investigating the mechanism underlying methylglyoxal-induced formation of mitochondrial permeability transition pore in human neuroblastoma SH-SY5Y cell 唐家萱 , 簡宏哲 , 黃乃瑰 , 黃春霖 Chia-Husan Tang, Hung-Che Chien, Nai-Kuei Huang, Chuen-Lin Huang
PY115	The roles of Htt and HAP40 in mitochondrial function 李芯儀 , 張晏綺 , 黃梓甯 , 周翊淳 , 何盧勳 * Sin-Yi Lee, Yen-Chi Chang, Zih-Ning Huang, Yi-Chun Chou, and Lu-Shiun Her*
PY116	Determine the role of intellectual disability associated gene MED12 in the developing and mature mouse brains 蔡宜真 , 游欣穎 , 黃拓 , 陳熙培 , 黃騰緯 Yi-Chen Tsai, Shin-Ying You, To Huang, Xi-Pei Chen, Teng-Wei Huang
PY117	Prenatal metformin exposure impairs neocortex development in embryos and neonates Muhammet Oner, 陳美智 , 鄭邦廷 , 黎喻暄 , 鄭語喬 , Ayse Celik, 宋軒瑋 , 許璨文 , 林鼎祐 , G. M. Shazzad Hossain Prince, Trayee Dhar, 鄭旭辰 , 唐品琦 , 林赫 Muhammet Oner, Mei-Chih Chen, Pang-Ting Cheng, Yu-Hsuan Li, Yu-Chiao Cheng, Ayse Celik, Shiuan-Woei Soong, Li-Wen Hsu, Din-You Lin, G. M. Shazzad Hossain Prince, Trayee Dhar, Hsu-Chen Cheng, Pin-Chi Tang, Ho Lin
PY118	Antidepressant and adverse effects on the ketamine enantiomers underlie NMDA receptor-mediated synaptic targeting 柯佳辰 , 張傑宥 , 李旂緯 , 張訓碩 , 陳宜芳 , 李正達 , 林惠菁 Chia-Chen Ko, Chieh-Yu Chang, Chi-Wei Lee, Hsun-Shuo Chang, Yih-Fung Chen, Cheng-Ta Li, Hui-Ching Lin
PY119	Neonatal dexamethasone treatment has a cross generation adverse impact on the hippocampal BDNF-mTOR signaling pathway 鄭恩宇 林維星 吳宗訓 楊奕玲 * 呂國棟 * En-Yu Cheng Wei-Hsing Lin Zong-Syun wu Yi-Ling Yang Kwok-Tung lu
PY120	Exploring Relationships Between Electroencephalography Features and Hippocampal Histopathology in Temporal Lobe Epilepsy 丁威智 , 李怡萱 , 尤香玉 , 周建成 , 林俊甫 , 陳信宏 , 陳奕秀 , 許珮蒨 , 黃昱傑 , 李政家 Wei-Chih Ting, Yi-Hsuan Lee, Hsiang-Yu Yu, Chien-Chen Chou, Chun-Fu Lin, Hsin-Hung Chen, Yi-Hsiu Chen, Pei-Chien Hsu, Yu-Jie Huang, Cheng-Chia Lee
PY121	Perinatal Blockade of Neuronal Glutamine Uptake Sex-differentially Alters Transamination -mediated Basal Excitatory Synaptic Transmission of Hypothalamic Neurons in Adult Rats 梁淑鈴 , 陳柔賢 Shu-Ling Liang, Rou-Shayn Chen
PY122	Calpain mediates proteostasis involving activation of GAP43 to facilitate autolysosome formation in cortical neurons 洪家琪 , 李佳芸 , 錢姣樺 , 許舒沛 , 王震宇 , 黃昱傑 , 林君樺 , 謝奉勳 , 李怡萱 * Chia-Chi Hung, Chia-Yun Lee, Wen-Hua Chien, Su-Pei Hsu, Chen-Yu Wang, Yu-Jie Huang, Chun-Hua Lin, Feng-Shiun Shie, Yi-Hsuan Lee*"
PY123	Deleterious genetic changes in AGTPBP1 result in teratozoospermia with sperm head and flagella defects 汪雅雲 , 林佑樺 , 賴宗炫 , 鄧日隆 , 林盈宏 Ya-Yun Wang, Yu-Hua Lin, Tsung-Hsuan Lai, Jih-Lung Teng, Ying-Hung Lin
PY124	Serum estrogen level modifies colorectal distension-induced visceromoter response sensitized by uterus irritation in rats 劉嘉元 , 林則彬 , 吳慧中 , 陳玫蓉 Jia-Yuan Liu, Tzer-Bin Lin, Hui-chung Wu, Mei-Jung Chen

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PY125	TGF-β1-mediated repression of primary cilia reduces uterine receptivity in women with endometriosis 侯奐慈 , 吳孟興 , 蔡少正 Huan-Tzu Hou, Meng-Hsing Wu, Shaw-Jenq Tsai
PY126	Roles of intestinal microbiota and 5-HT7 receptor on visceral hypersensitivity in mouse models 林俐妤 , 凃佳宏 , 吳明賢 , 郭瑋庭 , 忻凌偉 , 余佳慧 Li-Yu Lin, Chia-Hung Tu, Ming-Shiang Wu, Wei-Ting Kuo, Ling-Wei Hsin, Linda Chia-Hui Yu
PY127	The beneficial effects of taurine in alleviating CDAHFD Diet-induced MASH by modulating the gut microbiota, gut barrier function and regulating intrahepatic inflammation 郭賀喻 , 吳莉玲 , 范沛涵 , 陳筱萍 , 蔡鎧鴻 , 蔡睿辰 Ho-Yu Kuo, Li-Ling Wu, Pei-Han Fan, Hsiao-Ping Chen, Kai-Hung Tsai, Jui-Chen Tsai
PY128	Deciphering the impact of microbiota on the colonic migrating motor complex through an ex vivo colonic motility 文心玫 , 吳偉立 Shin-Mei Wen, Wei-Li Wu
PY129	Nostoc commune polysaccharide extract enhances the stem cell functions for the treatment of skin aging 黃怡靜 , 李冠群 , 陳冬生 Huang, Yi-Jing, Dr. Lee, Guan-Chiun, Dr. Chen, Tung-Sheng
PY130	Regulation of functions of transcription factors on IAP gene promoter 盧惠萍 Hui-Pin Lu
PY131	The working ability and differences of pharmacy students' internship in chain and individual self-operated pharmacies 張裕昊 , 施承典 Yu-Hao Chang,Cheng-Dean Shih
PY132	The impact of people's medication experience in community pharmacy on pharmaceutical service satisfaction 郭珉甫 , 蔡瓊慧 , 施承典 Min-Fu Kuo, Chiung-Hui Tsai, Cheng-Dean Shih
PY133	Developing a Series Analysis of Protein and Nucleic Acid Applying Magnetic Immunoassay and Isothermal Amplification for Helicobacter pylori Detection 黃慈崴 , 許書禎 , 張天耀 , 林文智 , 余冠毅 , 程君弘 , 孫俊仁 , 程雲詳 , 劉正哲 Tzu-Wei Huang, Shu-Chen Hsu, Tian-Yao Chang, Wen-Zhi Lin, Kuan-Yi Yu, Juin-Hong Cherng, Jun-Ren Sun, Yun-Hsiang Cheng, Cheng-Che Liu
PY134	The role of fibrinogen-to-albumin ratio (FAR) and lactate-to-albumin ratio (LAR) in predicting return of spontaneous circulation (ROSC) and survival outcomes in non-traumatic out-of-hospital cardiac arrest (OHCA) 蔡威廷 , 劉澤軒 , 孫仁堂 , 張智鈞 Wei-Ting Tsai, Tse-Hsuan Liu, Jen-Tang Sun, Chih-Chun Chang
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PH190	CASK mediates Nrf2-dependent HO-1 downregulation under oxidative stress via activation of PARP1-ATF4 pathway in prostate cancer cells 方莎 , 林琬琬 Varsha Rathore, Wan-Wan Lin
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PH211	Magnolin Targeting of the JNK/Sp1/MMP15 signaling axis suppresses the cervical cancer microenvironment and metastasis via microbiota modulation. 林佳良 , 謝逸憲 Chia-Liang Lin, Yi Hsien Hsieh
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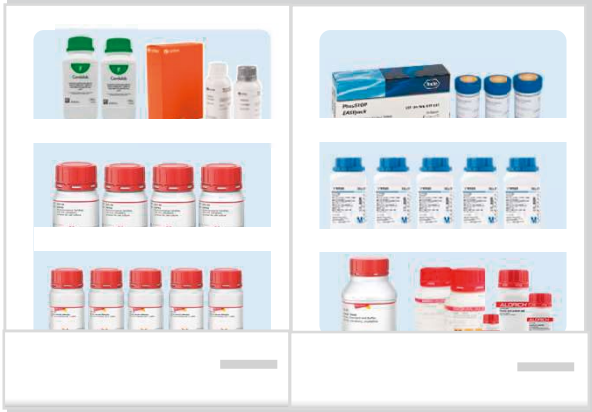
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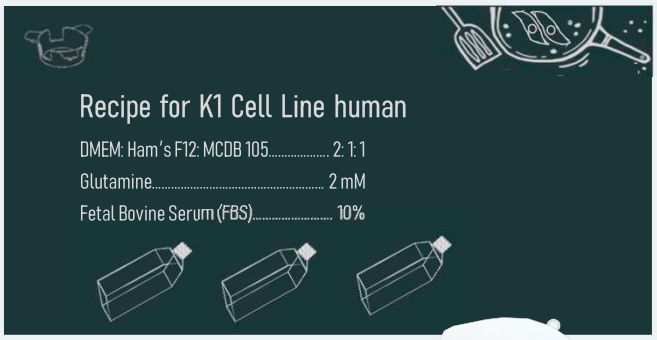


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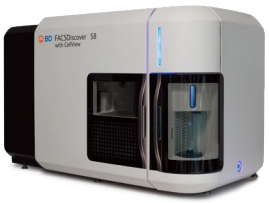


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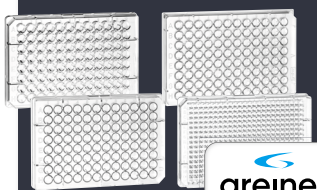
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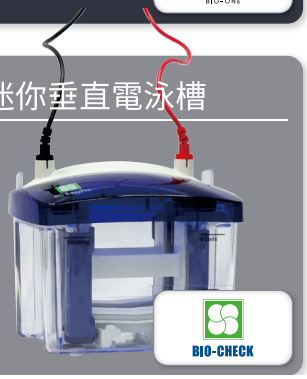
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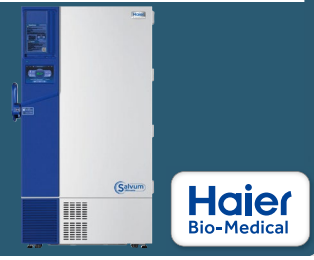
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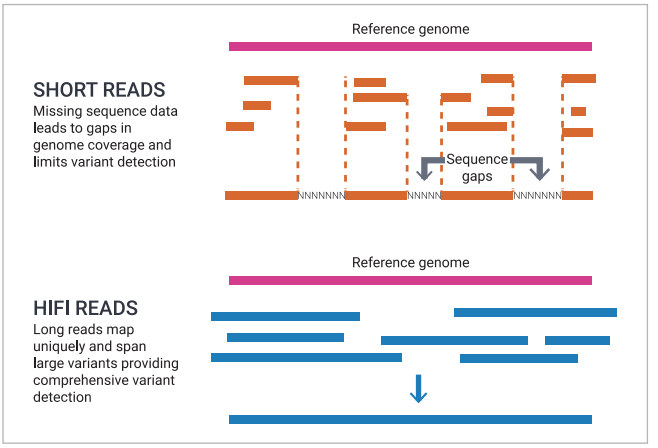
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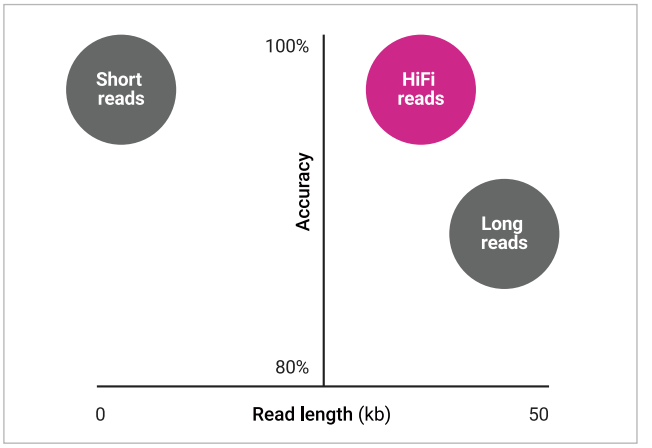
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Agilent SureSelect Clinical Research Exome V4

Agilent SureSelect 臨床研究外顯子 V4 (CRE V4) 由知名臨床分子遺傳學家 Madhuri Hegde 博士 (American College of Medical Genetics 成員，曾任職於 Emory Genetics Laboratory) 及其團隊，以臨床證據為基礎精心設計，增強對致病遺傳變異的識別，加深外顯子定序於臨床研究的應用。

	SureSelect Clinical Research Exome V4
Target Size	41.1 Mb
Design Size	48.5 Mb*
Coding Content	
CCDS	Release 22
GENCODE	V31
RefSeq	Release 95 - NM
Non-Coding Content	
ClinVar	All P and LP variants (2022), including variants >100 bp
HGMD	DM with AF < 0.5% (2021)
ACMG 73 genes	All P and LP variants (2022), including variants > 100 bp
Additional Content	
Enhanced coverage	> 6,500 disease-associated genes and sex chromosomes
TERT gene	Promoter region
Mitochondrial genome	All 37 mitochondrial genes (16 kb)
Ancestry SNPs	1,500+ ancestry informative SNPs
PGx SNPs	100+ well-documented variants spanning pharmacogenomic genes like *CYP2C19, CYP2D6*, and *TPMT*
Structural variants	20+ events, including Boland Inversion, HBA/HBB deletions, GALC 30 kb, EPCAM/MSH2 and GREM1/SCG5 deletion
Mini-genomes	41 complete genes, including *DMD* gene
Repeat disorders	Probes included for 43 loci (rule out approach)
Sample tracking SNPs	AI 24 optimized SNPs from Pengelly *et al.*

** 48.5 Mb merged probes size, 51.0 Mb including sequences with ≥95% homology*

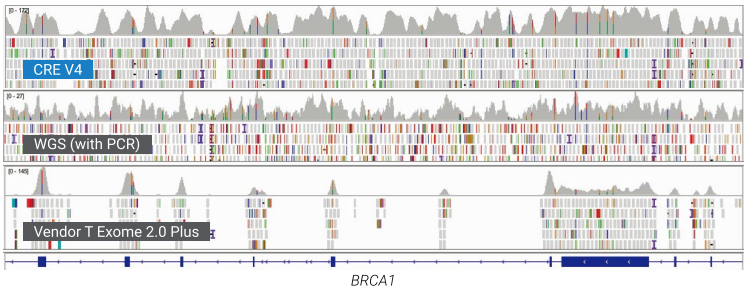


- 增加 >6,500 個疾病相關基因覆蓋範圍
- 涵蓋 41.1 Mb 的人類 Protein-coding regions 與臨床研究特定的 Non-Coding 區域
- 高度特異性、高覆蓋率、高效率分析

A

APC	*ATP7B*	*BMPR1A*	*BRCA1*	*BRCA2*
COL3A1	*DMD*	*DSC2*	*DSP*	*FBN1*
KCNH2	*KCNQ1*	*LDLR*	*LMNA*	*MEN1*
MLH1	*MSH2*	*MSH6*	*MUTYH*	*MYBPC3*
NF2	*OTC*	*PKP2*	*PMS2*	*PTEN*
RB1	*RYR1*	*RYR2*	*SCN5A*	*SDHB*
SDHC	*SDHD*	*SMAD3*	*SMAD4*	*STK11*
TGFBR1	*TP53*	*TSC1*	*TSC2*	*VHL*
WT1				

B



▶ 包含 41 個疾病相關基因完整設計

安捷倫 Genomics 台灣代理

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CosMx SMI 單細胞分析



解析組織原位單細胞數千種基因與數十種蛋白資訊，精準定義出每顆細胞位置。

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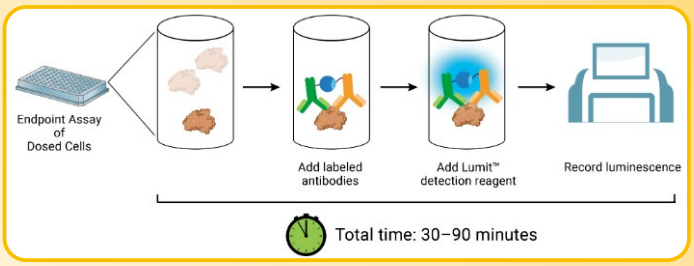
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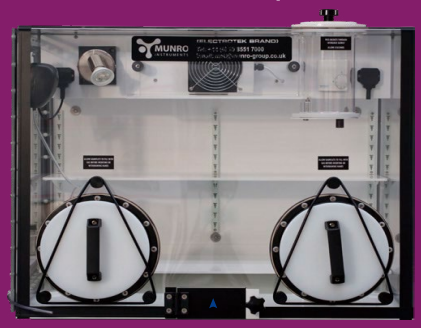
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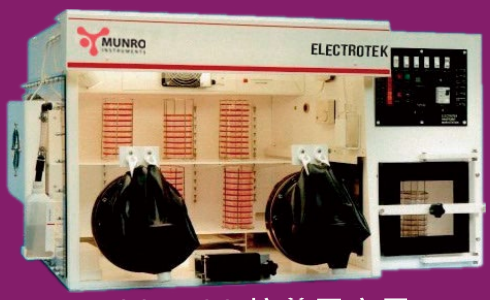
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