

國科會生命科學研究推動中心
研討(習)會 結案報告

一、基本資料

中文名稱	生物化學在生物醫學的新展望
英文名稱	The Frontiers of Biochemistry in Biomedical Science
中文摘要報告	本研討會為臺灣生化與分子生物學學會每年定期舉辦之學術盛會，於 2025 年 10 月 24 日至 26 日假南投惠蓀林場會議中心圓滿舉行，旨在促進國內生化與分子生物學研究社群之交流、合作與知識傳承。今年共計 159 位來自全臺各大學校院與研究機構之研究人員與師生報名參加，顯示國內學界對於生命科學領域發展之高度重視。會議邀請 15 位跨領域傑出學者擔任講者，分享最新研究成果與應用進展，並安排三場特邀專題演講，分別由吳漢忠教授、施明哲院士與莊偉哲教授主講，內容涵蓋癌症幹細胞治療策略、植物逆境轉錄調控機制與轉譯醫學之藥物開發，展現臺灣學術界於基礎與應用研究之深厚實力與多元視野。此外，會議規劃四個主題科學時段，分別為「類器官於發育與疾病模式研究之應用」、「植物細胞內訊號傳遞的策略與干擾」、「生物醫學研究的創新進展」與「青年教師的創新研究」，涵蓋重要且具前瞻性的研究領域。為鼓勵青年學子積極參與學術交流，會議亦設置壁報展示與競賽，總計共有 97 件投稿論文，並遴選出 7 位優秀青年學者進行口頭簡報競賽。透過多樣化的報告形式與自由討論平台，與會者得以拓展研究視野、激發創新構想，並促進跨領域合作契機。整體而言，本次研討會有效凝聚國內生化與分子生物學領域之研究能量，強化不同世代與研究取向間之學術對話，對於提升我國生命科學研究品質與國際能見度具有重要助益。
英文摘要報告	This symposium, organized annually by the Taiwanese Society for Biochemistry and Molecular Biology (TSBMB), was successfully held from October 24 to 26, 2025, at the Huisun Forest Conference Center in Nantou. It aimed to foster academic exchange, interdisciplinary collaboration, and knowledge sharing among researchers in the fields of biochemistry and molecular biology in Taiwan. This year, a total of 159 participants from universities and research institutes across the country registered for the event. Fifteen distinguished speakers from diverse disciplines were invited to share their latest research progress and applications, including three plenary speakers—Prof. Han-Chung Wu, Academician Ming-Che Shih, and Prof. Woei-Jer Chuang—whose talks highlighted cutting-edge advancements in cancer stem cell therapies, transcriptional regulation of stress tolerance in plants, and translational drug development, respectively. The symposium featured four scientific sessions: “Organoids in Development and Disease Modeling,” “Strategies and Interference in Plant Intracellular Signaling,” “Innovative Developments in Biomedicine Research,” and “Innovations from Young Faculty,” reflecting the dynamic growth and diverse directions of research in the field. To encourage early-career participation and interaction, a poster session and competition were held, attracting 97 submissions, from which 7 outstanding young scholars were selected to deliver oral presentations. Through a combination of invited lectures, poster exchanges, and informal discussions, the symposium provided a platform for participants to expand research perspectives, gain peer feedback, and explore collaborative opportunities across disciplines and institutions. Overall, this event effectively consolidated research momentum in Taiwan’s biochemical and molecular biology community, strengthened academic dialogue across generations, and contributed to the advancement and international visibility of life science research in the region.
研討(習)會目的	本次研討會的舉辦，期望能達到以下目的：(1) 提升國內生化分生領域研究能量：本次研討會將邀請國內的專家學者，通過論文發表和專題演講的方式，分享最新的研究成果，促進學術交流與討論。透過這些互動，參與者可以更

	深入了解生化與分子生物學領域的最新發展趨勢，從而提升研究能力，增強臺灣在此領域的競爭力。(2)促進合作與交流： 本次研討會將匯集來自國內學術界和產業界的頂尖研究者和專業人士，通過三天兩夜的密集交流，增進彼此之間的了解和合作機會。透過分享研究資源和創新技術，建立實質性的合作關係，推動臺灣生化與分子生物學領域的整合與發展。(3) 培育未來人才： 研討會不僅邀請國內知名的專家學者參與，還吸引了大量年輕學生參加論文發表和專題演講。透過展示研究成果和與專家的互動，學生們可以拓展視野，深入理解生化與分子生物學領域的研究方法和思維，激發他們的研究熱情，培育未來在生化與分子生物科技領域的跨領域人才。
參加對象(含人數)	1. 主講者 15 人，主持人 7 人，工作人員 25 人。 2. 全台生物化學及分子生物學相關學院之各大系所、學程的師生，合計共約 159 人。
預期效益達成狀況	透過本次研討會的舉辦，預期能夠在多個方面產生積極效益。首先，研討會將提升臺灣在生化與分子生物學領域的研究實力，促使相關研究者在公開會議上展現其研究成果並獲得更多關注。其次，研討會將促進學術界與產業界之間的實質性合作，通過資源共享與技術交流，加速創新成果的轉化與應用。此外，研討會還將為未來生化分子生物科技跨領域人才的培育奠定基礎，提供年輕學者與專家學者互動的機會，激發其研究熱情與創新思維。最終，這些效益將共同推動臺灣在生化分生科技領域的國際競爭力，促進整體研究能量的提升與相關科技創新發展。

二、邀請主持人與主講人之姓名及學經歷

姓名	學歷	經歷	現任
王育民	Ph.D. Institute of Life Science, National Defense Medical Center, Taipei, TW	2024-Present President, The Taiwan Society for Biochemistry and Molecular Biology, Taiwan 2022-Present Dean, College of Bioscience and Biotechnology, NCKU, Taiwan 2022-Present CEO of NCKU Research and Development Foundation, Taiwan 2016-Present Distinguished Professor, Department of Biotechnology and Bioindustry Sciences, NCKU, Taiwan 2022-2023 Chair, Life Science Research Promotion Center, Taiwan 2019-2022 Vice President, Academic Affairs, NCKU, Taiwan 2015-2019 Director of Center for Teaching and Learning Development, NCKU, Taiwan	Distinguished Professor, Department of Biotechnology and Bioindustry Sciences, National Cheng Kung University, Taiwan Dean, College of Bioscience and Biotechnology, National Cheng Kung University, Taiwan
吳漢忠	Ph.D. Institute of Pathology, College of Medicine, National Taiwan University	2019-2025 Director, Biomedical Translation Research Center (BioTReC), Academia Sinica 2020-Present Distinguished Research Fellow, Institute of Cellular and Organismic Biology, Academia Sinica 2023-Present President, Taiwan Antibody Association 2019 CEO in National Biotechnology Research Park (NBRP) Academia Sinica 2018 Acting Director in Institute of Cellular and Organismic Biology, Academia Sinica 2016-2018 Director, Department of Intellectual Property and Technology Transfer, Academia Sinica 2010-2016 Vice Director in Institute of Cellular and Organismic Biology, Academia Sinica	Distinguished Research Fellow, Institute of Cellular and Organismic Biology, Academia Sinica Fellow, National Academy of Inventors (NAI), USA Chair, Taiwan Bio-development Foundation (TBF)
郭紘志	Ph.D. Division of Women's Health, King's College London, England, U.K.	2025-Present Professor, M. Kandiah Faculty of Medicine Health Sciences, Universiti Tunku Abdul Rahman (UTAR), Malaysia 2023-Present President, Taiwan Society for Stem Cell Research (TSSCR) 2021-Present Coordinator, INS-Taiwan International Graduate Program (TIGP) Outstanding Research Award 1998-Present Professor, Graduate Institute of Medical	Research Fellow & Deputy Director, Institute of Cellular and Organismic Biology, Academia Sinica

		Genomics and Proteomics, College of Medicine, National Taiwan University	
許聿翔	Ph.D. Biomedical Engineering, University of California, Irvine, USA	2019-Present Associate Professor in the Institute of Applied Mechanics, National Taiwan University, Taiwan, R.O.C 2022-Present Associate Professor in the Graduate School of Advanced Technology, National Taiwan University, Taiwan, R.O.C 2013-2019 Assistant Professor in the Institute of Applied Mechanics, National Taiwan University, Taiwan, R.O.C 2019-Present Chinese Journal of Physics: Editor	Associate Professor, Institute of Applied Mechanics, National Taiwan University, Taiwan
侯珮珊	Ph.D. Institute of Anatomy and Cell Biology, National Taiwan University, Taipei, TW	2019-Present Assistant Professor, Institute of Anatomy and Cell Biology, School of Medicine, National Yang-Ming Chiao-Tung University, Taiwan	Assistant Professor, Institute of Anatomy and Cell Biology, School of Medicine, National Yang-Ming Chiao-Tung University, Taiwan
林玉俊	Ph.D. Department of Life Science, Tunghai University, Taichung, TW	2024-Present Director, Biomedical Science and Engineering Center, NTHU, Taiwan 2024-Present Group director, Center for EMI Excellence, NTHU, Taiwan 2024-Present Distinguished Professor, Institute of Molecular Medicine, NTHU, Taiwan 2023-2024 Professor, Institute of Molecular Medicine, NTHU, Taiwan 2019-2023 Associate Professor, Institute of Molecular Medicine, NTHU, Taiwan	Distinguished Professor, Institute of Molecular Medicine, National Tsing Hua University, Taiwan Director, Biomedical Science and Engineering Center, National Tsing Hua University, Taiwan
陳榮貴	Ph.D. Institute of Cellular and Molecular Biology, University of Texas at Austin, USA	2025-Present Yushan Young Fellow, Ministry of Education, Taiwan 2025-Present Assistant Professor, Institute of Molecular Medicine, National Taiwan University 2025-Present 2030 Cross-Generation Emerging Young Scholar, NSTC, Taiwan 2021-2024 Associate Faculty Member, Faculty Opinions (F1000) 2019-2024 Postdoctoral & Research Scientist, Koch Institute at MIT, USA 2011-2018 Graduate Teaching & Research Assistant, ICMB, UT Austin, USA 2006-2008 Graduate Research Assistant, IBMS, Academia Sinica, USA	Assistant Professor, Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taiwan

林之儀	Ph.D. Genome and Systems Biology Degree Program, National Taiwan University and Academia Sinica, Taipei, Taiwan	2022-2024 Senior Research Scientist, MiNA Therapeutics, London, UK 2017-2022 Scientific collaborator, EPFL, Lausanne, Switzerland 2009-2010 Research Associate, Academia Sinica, Taipei, Taiwan	Assistant Professor, Department of Life Sciences, National Chung Hsing University, Taiwan Assistant Professor, Doctoral Program in Microbial Genomics, National Chung Hsing University and Academia Sinica, Taiwan
邱于芯	Ph.D. Department of Biology and Biochemistry, University of Houston, Houston, Texas, U.S.A.	2025-Present Associated Professor, Institute of Biotechnology, NTHU, Taiwan 2019-2025 Assistant Professor, Institute of Biotechnology, NTHU, Taiwan 2016-2019 Research Scientist, Department of Pharmacology, University of Virginia, U.S.A. 2011-2016 Research Associate, Department of Pharmacology, University of Virginia, U.S.A. 2003-2005 Research Assistant, Institute of Biomedical Sciences, Academia Sinica, Taiwan	Associated Professor, Institute of Biotechnology, National Tsing Hua University, Taiwan
陳虹樺	Ph.D. Department of Microbiology, Michigan State University, USA	2022-Present Chair Professor, Department of Life Sciences, National Cheng Kung University 2009-Present Director, Orchid Research and Development Center, National Cheng Kung University 2007-2022 Distinguished Professor, Department of Life Sciences, National Cheng Kung University 2001-2007 Professor, Department of Life Sciences, National Cheng Kung University	Chair Professor, Department of Life Sciences, National Cheng Kung University, Taiwan Director, Orchid Research and Development Center, National Cheng Kung University, Taiwan
施明哲	Ph.D. Genetics Ph.D. Program, University of Iowa, USA	2023-Present CEO, Nugreen Bio Agritech Co. Ltd., Taiwan 2017-2023 Chair, South Campus Planning and Construction Committee, Academia Sinica 2016-2017 Secretary General, Academia Sinica, Taiwan 2008-2023 Distinguished Research Fellow, Agricultural Biotechnology Research Center, Academia Sinica, Taiwan	Academician, Academia Sinica Corresponding Research Fellow, Agricultural Biotechnology Research Center, Academia Sinica, Taiwan CEO, Nugreen Bio Agritech Co. Ltd., Taiwan
楊長賢	Ph.D. Genetics at the University of California, Davis, USA	2015-Present Chair Professor, Institute of Biotechnology, National Chung Hsing University, Taichung, Taiwan	Academician, Academia Sinica Chair Professor,

		2015-2023 Vice President for Academic Affairs, National Chung Hsing University, Taichung, Taiwan 2007-2015 Distinguished Professor, Institute of Biotechnology, National Chung Hsing University, Taichung, Taiwan 2005-2011 Director, Biotechnology Center, National Chung Hsing University, Taichung, Taiwan	Institute of Biotechnology, National Chung Hsing University
楊俊逸	Ph.D. Graduate Institute of Biotechnology, National Chung Hsing University, Taiwan	2021-Present Professor, Institute of Biochemistry, National Chung Hsing University, Taiwan 2022-2024 Director of Institute of Biochemistry, National Chung Hsing University 2016-2019 Director of Institute of Biochemistry, National Chung Hsing University 2015-2021 Associate Professor, Institute of Biochemistry, National Chung Hsing University, Taiwan 2009-2015 Assistant Professor, Institute of Biochemistry, National Chung Hsing University, Taiwan 2005-2009 Postdoctoral Fellow, Lab of Plant Molecular Biology, Rockefeller University, New York, USA 2005-2005 Postdoctoral Fellow, Molecular Plant Virology Lab, Dept. of Plant Pathology, National Chung Hsing University, Taiwan	Professor, Institute of Biochemistry, National Chung Hsing University, Taiwan
林詩舜	Ph.D. Graduate Institute of Agricultural Biotechnology, National Chung-Hsing University, Taiwan	2021-Present Associate Editor of Virology Journal 2022-Present Associate Editor of Journal of Plant Research 2020-2022 Secretary General, Taiwan Society of Plant Biology	Professor, Institute of Biotechnology, National Taiwan University, Taiwan Adjunct Research Fellow, Center of Biotechnology, National Taiwan University, Taiwan
余天心	Ph.D. Institute of Life Science, National Defense Medical Center, Taipei, Taiwan	2024-Present Research Fellow, Institute of Plant and Microbial Biology, Academia Sinica, Taiwan	Research Fellow, Institute of Plant and Microbial Biology, Academia Sinica, Taiwan
林敬哲	Ph.D. Biochemistry and Biophysics, University of North Carolina at Chapel Hill, NC, USA	2019-2023 Deputy Vice President for Research and Development, National Taiwan University, Taipei, Taiwan 2012-2018 Professor and Director, Institute of Biochemistry and Molecular Biology, National Taiwan University College of Medicine, Taipei, Taiwan 1996-2012 Professor, Institute of Biopharmaceutical	Professor, Institute of Biochemistry and Molecular Biology, National Taiwan University, Taiwan

		Sciences, National Yang-Ming University, Taipei, Taiwan 1995-1996 Post-doctoral fellow, Princeton University, Princeton, WA, USA 1992-1995 Post-doctoral fellow, Fred Hutchinson Cancer Research Center, Seattle, WA, USA	
莊偉哲	Ph.D. Department of Chemistry, Florida State University, USA	2023-2025 Executive Vice President, National Cheng Kung University, Taiwan 2020-2023 Assistant Vice President, National Cheng Kung University, Taiwan 2017-2019 Director General, Department of Life Sciences, Ministry of Science and Technology	Chair Professor, Department of Biochemistry and Molecular Biology, National Cheng Kung University, Taiwan
夏國強	Ph.D. The Rockefeller University, Laboratory of Cell Biology, Howard Hughes Medical Institute	2025-Present Research Fellow, Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan 2020-2024 Associate Research Fellow, Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan 2015-2020 Assistant Research Fellow, Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan 2010-2015 Postdoctoral Fellow, The Rockefeller University, Laboratory of Chemistry and Cell Biology	Research Fellow, Deputy Director, Institute of Molecular Biology, Academia Sinica
鄭子豪	Ph.D. Department of Cellular and Molecular Pharmacology, Rutgers University, New Jersey, USA	2021-2025 Director, Institute of Biochemistry and Molecular Biology, NYCU, Taiwan 2022-2022 Dean, Office of Research and Development, NYCU, Taiwan 2019-2021 Director, Institute of Biochemistry and Molecular Biology, NYMU, Taiwan 2018-2019 Visiting Professor, Genetics Department, Stanford University, USA	Distinguished Professor, Institute of Biochemistry and Molecular Biology, National Yang Ming Chiao Tung University (NYCU), Taiwan Senior Vice President, National Yang Ming Chiao Tung University (NYCU), Taiwan
楊鎧鍵	Ph.D. Washington University in St Louis, MO, USA M.D. National Taiwan University, Taiwan	2022-2025 Professor, Graduate Institute and Department of Pharmacology, NTU 2019-2022 Associate Professor, Graduate Institute and Department of Pharmacology, NTU 2014-2019 Assistant Professor, Graduate Institute and Department of Pharmacology, NTU 2012-2014 Post-Doc research fellow, University of Illinois at Chicago & Brown University, USA 2000-2005 Resident and clinical fellow in cardiology, NTU hospital, Taiwan	Chair and Distinguished Professor, Graduate Institute and Department of Pharmacology, National Taiwan University, Taiwan Attending Physician, Cardiovascular Center, National Taiwan University Hospital, Taiwan

王慧菁	Ph.D. Basic Medical Sciences, National Cheng Kung University	2025-Present Director, MS in Regulatory Affairs for Drugs & Medical Devices, NTHU, Taiwan 2022-2025 Section Chief, Center for Teaching and Learning Development, NTHU, Taiwan Since 2021 Professor, School of Medicine, NTHU, Taiwan	Professor, School of Medicine, National Tsing Hua University, Taiwan
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三、議程

日期	議程時間	議程講員	議題主題
114.10.24	13:10-14:10	吳漢忠	Keynote Speech I
114.10.24	14:10-14:40	郭紘志	Organoids in Development and Disease Modeling
114.10.24	14:40-15:10	許聿翔	Organoids in Development and Disease Modeling
114.10.24	15:10-15:40	侯珮珊	Organoids in Development and Disease Modeling
114.10.24	16:10-16:40	陳榮貴	Innovations from Young Faculty
114.10.24	16:40-17:10	林之儀	Innovations from Young Faculty
114.10.24	17:10-17:40	邱于芯	Innovations from Young Faculty
114.10.25	09:00-10:00	施明哲	Keynote Speech II
114.10.25	10:20-10:50	楊俊逸	Strategies and Interference in Plant Intracellular Signaling
114.10.25	10:50-11:20	林詩舜	Strategies and Interference in Plant Intracellular Signaling
114.10.25	11:20-11:50	余天心	Strategies and Interference in Plant Intracellular Signaling
114.10.26	09:00-10:00	莊偉哲	Keynote Speech III
114.10.26	10:20-10:50	鄭子豪	Innovative Developments in Biomedicine Research
114.10.26	10:50-11:20	楊鎧鍵	Innovative Developments in Biomedicine Research
114.10.26	11:20-11:50	王慧菁	Innovative Developments in Biomedicine Research

四、活動照片和影片

[大合照]



本次研討會匯集約 160 位專家學者，共同推動跨領域研究與產學連結，現場氣氛熱絡，為會議揭開序幕。

[報到]



與會學者陸續從各地匯集，正式展開為期數日的學術交流活動。

[會議-keynote]



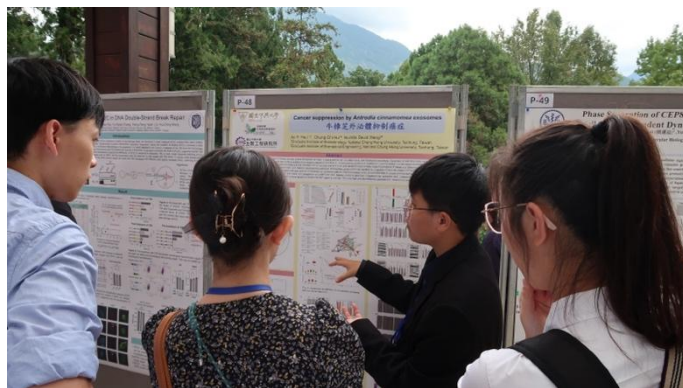
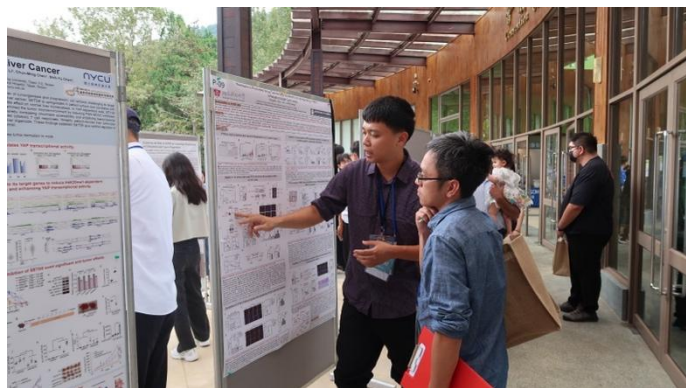
本次研討會邀請重量級講者發表專題演說，內容涵蓋前瞻研究與實務應用，廣獲與會者迴響。

[會議-Session]



各場 Session 涵蓋廣泛主題，參與者踴躍提問，充分展現活躍的學術交流氛圍。

[海報競賽]



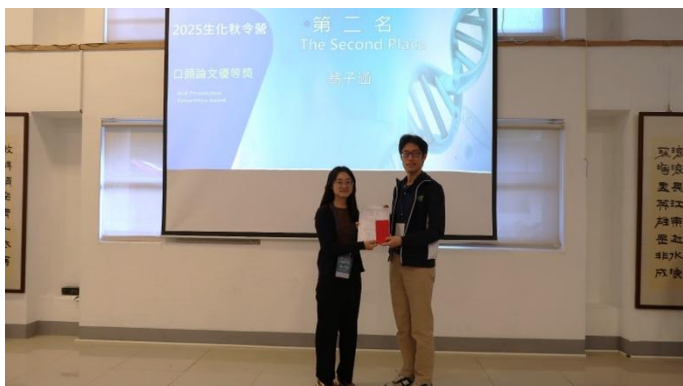
海報展示競賽激發青年學者創意，透過現場互動與評審交流，展現新世代科研能量。

[口頭競賽]



參賽者以精闢的簡報與流暢的口語表達，闡述研究成果，展現深厚的學術底蘊與專業表現。評審與聽眾互動熱烈，充分體現學術交流的核心精神。

[閉幕頒獎]



研討會在熱烈掌聲中劃下句點，並舉行頒獎典禮，表彰在論文與海報競賽中表現優異的研究學生，激勵未來能有更多更好的學術表現。

● 活動影片請參考附件