

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	第 29 屆生物物理研討會
英文名稱	The 29 th Biophysics Conference
中文摘要報告	<p>本次第 29 屆生物物理研討會研討會於 2025 年 5 月 14 日至 16 日在臺北南港國家生技研究園區成功舉辦。研討會旨在促進生物物理學領域的交流和學術成果的分享，本年度總計有超過 280 位的與會者一同共襄盛舉。</p> <p>在這次研討會中，國立臺灣大學醫學院生物化學暨分子生物學研究所以及中央研究院共同邀請超過 30 位來自國內外的頂尖講者與會，共同探討生物物理學領域的前沿議題。研討會包含了「結構生物學」、「自然產物之生合成以及化學生物學」、「尖端生醫影像技術」、「巨分子複合體之組裝和其機轉」、「免疫與疾病」、「蛋白質動力學」、「細菌中的蛋白機轉」、「蛋白質摺疊以及液-液相分離」等八大主題之分享，以及「韓國生物物理學會」與「法國國家科學研究中心」兩個重要機構的國際交流活動。這些主題涵蓋了生物物理學的重要領域，提供了與會者一個跨領域、跨國際的交流和學習的平台。</p> <p>整體而言，本研討會的演講與討論為我們帶來了許多創新的啟發和見解，包含了世界前沿之研究成果、開創性的技術應用以及未來的生命科學發展趨勢。此外，超過 100 位以上來自各國之與會者也踴躍參與口頭報告和海報展示，有效促進國內外各大專院校學生間之學術交流和討論，我們也相信此舉本會議將能激發出不同的研究思路、增加台灣高教研究於國際間之能見度，並創造出更多與世界接軌之合作機會。</p>
英文摘要報告	<p>The 29th Biophysics Conference was successfully held at the National Biotechnology Research Park in Taipei, Taiwan from May 14 to 16, 2025. The event aimed to foster academic exchange and showcase recent achievements in the field of biophysics, attracting over 280 participants this year.</p> <p>Co-organized by the Institute of Biochemistry and Molecular Biology, College of Medicine, National Taiwan University and Academia Sinica, the conference featured more than 30 outstanding speakers from both domestic and international backgrounds to share cutting-edge insights in biophysics. The conference covered eight major scientific themes, including "Structural Biology", "Natural Product Biosynthesis/Chemical Biology", "Emerging Techniques and Modeling", "Assembly of Macromolecular Complexes and Machineries", "Immunity and Disease", "Protein Dynamics", "Surface Structure and Dynamics in Bacteria: from molecule to behavior", and "Protein Misfolding/LLPS". Notably, the Korea Biophysical Society and Centre national de la recherche scientifique (CNRS) both contributed to the program, further enriching the international scope of this conference. These themes encompassed significant areas of biophysics, providing participants with a platform for interdisciplinary and cross-border collaborations and learning.</p>

	<p>Overall, the lectures and discussions at this conference brought many innovative insights and inspirations, including cutting-edge research findings, pioneering technological applications, and future trends in life sciences. Moreover, over 100 participants from various countries actively engaged in oral presentations and poster sessions, effectively promoting academic exchange and discussion among students from major universities both domestically and internationally. These exchanges not only encouraged diverse research approaches but also enhanced the global visibility of Taiwan's academic research, enhance the visibility of Taiwanese higher education research on the international stage, and create more opportunities for collaboration with other countries worldwide.</p>
<p>研討(習)會目的</p>	<p>第 29 屆生物物理研討會於 2025 年 5 月 14-16 日，於國家生技研究園區舉辦，由國立臺灣大學醫學院生物化學暨分子生物學研究所以及中央研究院生醫轉譯研究中心主辦。本研討會為臺灣最大規模之生物物理研討會，以討論尖端生物物理技術和相關研究為主軸，過去三年分別於國立成功大學、花蓮慈濟大學以及新竹國家同步輻射研究中心舉辦。本次會議總計三天，至少包含八大主題和二個國際交流環節；討論主題涵蓋結構生物學、自然產物之生合成以及化學生物學、尖端生醫影像技術、巨分子複合體之組裝和其機轉、免疫與疾病、蛋白質動力學、細菌中的蛋白機轉、蛋白質摺疊以及液-液相分離等，有超過 30 個專題演講，並有超過三分之一之國際講員以及多位外國學者與會。國際交流環節則將由中華民國生物物理學會與韓國生物物理學會進行平行會議，並另外有法國國家科學研究中心 (CNRS) 於會中舉行專題演講，以促進國際研究資訊之流通，並提升本國研究之國際能見度，本會也將邀集全國之相關領域之學者和生技廠商一同共襄盛舉，參與廠商及學術單位預計超過 8 家以上。</p>
<p>參加對象(含人數)</p>	<p>本研討會為國內少見之大型國際研討會，會議將以演講為主，與會人員素質高，皆為全國相關領域之頂尖學者及學生。本年度會議之總參加人數超過 250 人，亦有多位外國學生前來共襄盛舉，而本研討會之講員除考慮地域性、國際性及各年齡層代表性外，均為國內外具有傑出研究以及高度聲望之學者，全數 35 位講員中，國外講者共有 14 位，超過 1/3 以上，凸顯本研討會之高度國際化。此外，本會亦廣邀國內新進研究人員參與，以增加更為多元之討論視野。此外，國內外生技產業之廠商亦派出數十位人員參與本研討會，以增進產學間之合作。</p>
<p>預期效益達成狀況</p>	<p>本研討會今年度之參與人數超過 280 人，並有超過 90 幅之壁報論文，有效的提升了本國之生物研究交流，亦鼓勵了多位年輕學者參與，增進台灣新生代研究人才之產生，此外，眾多之國際學者出席亦使本國研究與國際接軌，使世界可以了解本國所具有之龐大研究動能，提升台灣在國際學術圈之曝光度，且本研討會所探討之相關主題皆為生命科學研究上之關鍵議題，為提升學術與產業間之交流以推進研究之發展。綜上所述，本研討會順利的為台灣生物物理之研究帶來卓越的研究交流，並成功推廣台灣的研究成果，成為在國際學術界中的一顆耀眼明星。</p>

二、邀請主講人姓名及學經歷

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三、議程

日期	議程時間	議程講員	議題主題
5/14	13:20-14:20	Carmay Lim	Principles Governing Biological Processes
	14:20-14:55	Atsushi Nakagawa	Molecular Mechanism of Voltage Sensing Phosphatase, VSP
	14:55-15:15	Tzyh-Chang Hwang	Structure/Function Mechanisms of CFTR Modulators
	15:15-15:35	Yu-Chih Lo	DED Assembly Regulating Death Receptor Signaling
	15:55-16:30	Wah Chiu	Cryogenic Electron Imaging of Macromolecules, Cells and Tissues Beyond Expectation
	16:30-16:50	Wen Chang	Investigation of a Poxviral Membrane Fusion Complex Structure Using Cryo-EM
	16:50-17:10	Wen-Ting Lo	Structural Basis of Class II Phosphoinositide 3-Kinase Regulation and Inhibition
	17:10-17:30	Tai-Yen Chen	Human Transporter De-oligomerization Regulates Copper Uptake into Cells
5/15	09:00-09:35	Bradley Moore	Stoichiometric Growth-coupled Biosynthesis of Natural Products
	09:35-09:55	Tsung-Lin Li	Biosynthesis of Streptothricins: Fomimidoylation and Methylation
	09:55-10:15	Manuel Maestre-Reyna	Filming Electron Transfer: Time-resolved Crystallography of Photolyases and Cryptochromes
	10:35-11:10	Haw Yang	Subdomain Dynamics Enable Chemical Chain Reactions in Non-ribosomal Peptide Synthetases
	11:10-11:30	Shang-Te Danny Hsu	Functional Allostery of Human Ubiquitin C-terminal Hydrolases Probed by NMR Spectroscopy
	11:30-11:50	Szu-Hsueh Lai	Characterization of Large Protein Assemblies Using Native and Charge-Detection Mass Spectrometry
	13:10-13:45	Sun Choi	Molecular Modeling and Artificial Intelligence (AI) Assisted Drug Design, and Their Applications in Drug Discovery
	13:45-14:05	Ho Min Kim	Designed Immune Modulators and Their Structural Insights
	14:05-14:25	Lee-Wei Yang	Feedback to Succeed – Two-Stage Feedback to Design ADC-Like Small Molecules Drugs
	14:45-15:20	Yongdae Shin	Biomolecular Condensates in Gene Regulation
	15:20-15:40	Kuo-Chiang Hsia	Cell Cycle-specific Regulation of Centrosome Clustering Dynamics in Cancer Cells by the Multifunctional Kinesin HSET
	15:40-16:00	Hui-Chun Cheng	Regulation of Human Centrosomes by Centrosomal Protein of 57 kDa

	16:20-16:55	Toshiyuki Shimizu	Structural Biology of Nucleic Acid Sensing Toll-like Receptors
	16:55-17:15	Nien-Jen Hu	Structural and Functional Analysis of Colicin Ib C-domain: Salt Bridges, Dynamics, and Mutational Enhancement of Bactericidal Activity
	17:15-17:35	Li-Hung Chen	Functional Diversification of Structurally Similar, Sequence-Unrelated (SUSS) Effector Families in Phytopathogenic Fungi
5/16	09:00-09:35	Keiichi Namba	The Role of Biased Brownian Motion in Muscle Actomyosin and Bacterial Flagellar Motor Revealed by Electron Cryomicroscopy and Optical Nanophotometry
	09:35-09:55	Hong-Yan Shih	Emergence of Collective Evolutionary Dynamics in a Bacteria-virus Ecosystem
	09:55-10:15	Kuo-An Wu	Exploring Dynamical Instabilities in Cardiac Myocytes: A Four-Variable Model of Calcium Cycling and L-type Calcium Channel Regulation
	10:35-11:15	Ben Berks	The Mechanism of Bacteroidota Gliding Motility
	11:15-11:35	Hong Thuy Vy Nguyen	Investigating the Structure and Function of Bacterial and Viral Proteins
	11:35-11:55	Jian-Geng Chiou	The Clock-and-wavefront Mechanism Generates Intrinsically Scalable Patterns for Bacterial Biofilm Development
	13:15-13:35	Thérèse Malliavin	Influence of Stereochemistry in a Local Approach for Calculating Protein Conformations
	13:35-13:55	Charlie Gosse	Utilization of DNA Forceps to Decipher the Mechanism of ACE2 Binding to SARS-CoV2 Spike at the Single-molecule Level
	13:55-14:15	Jung-Hsin Lin	Evaluation of Standard Free Energy of Binding for General Biomolecular Systems with Curvilinear-path Umbrella Sampling All-atom Molecular Dynamics Simulations
	14:40-15:15	Samrat Mukhopadhyay	Prying into Biological Condensates Using Single-Molecule FRET and HomoFRET
	15:15-15:35	Jie-Rong Huang	TDP-43 Amyloid Fibril Formation via Phase Separation-related and -unrelated Pathways
	15:35-15:55	Ling-Hsien Tu	Screening of Small Molecules with Varying Inhibitory Effects on Islet Amyloid Peptide Aggregation Using Liquid Crystal-based Sensors

四、活動照片和影片

- 照片(至少 10 張，請填寫照片說明)



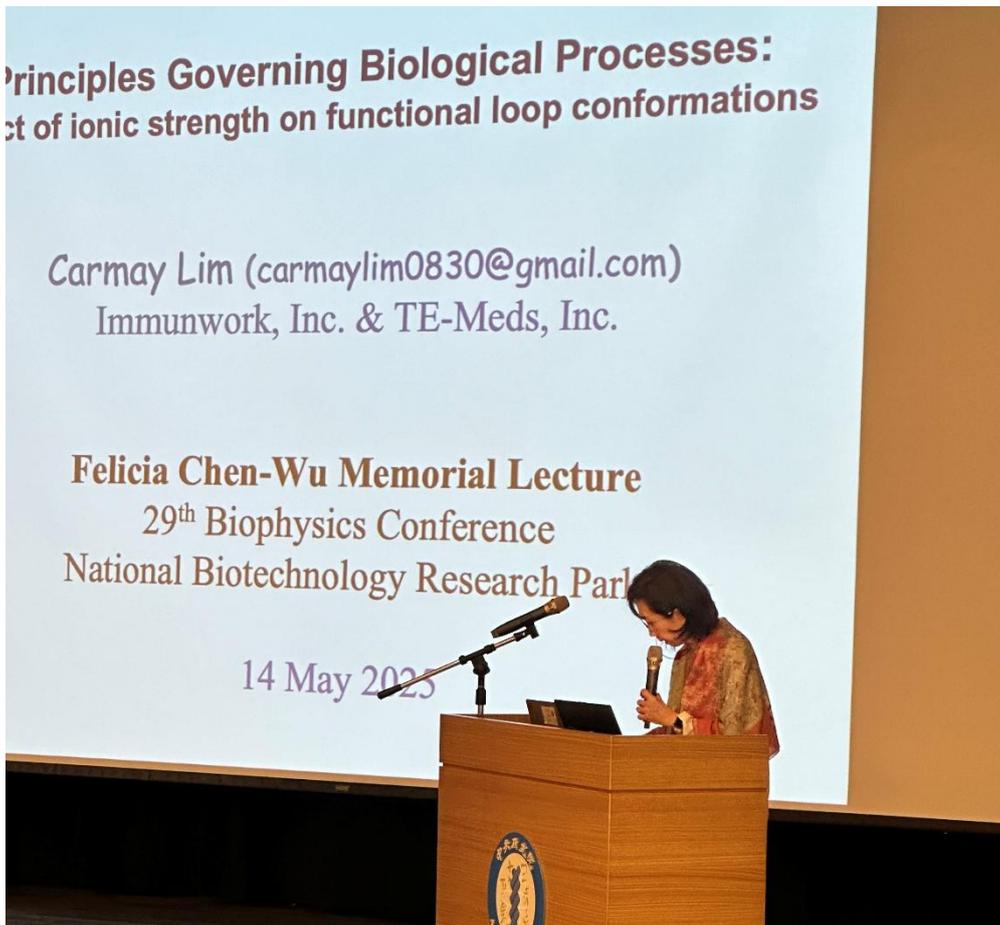
圖一、中華民國生物物理學會理事長詹迺立教授進行研討會開場



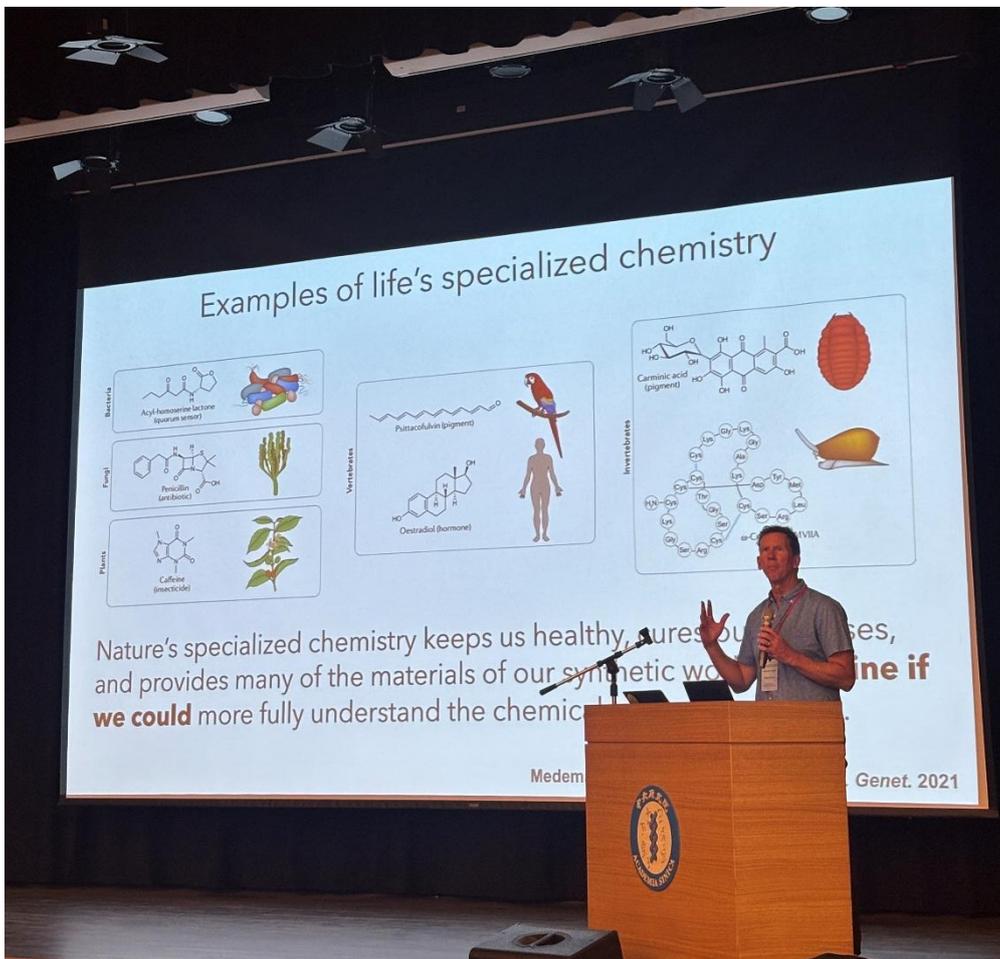
圖二、與會人員一景



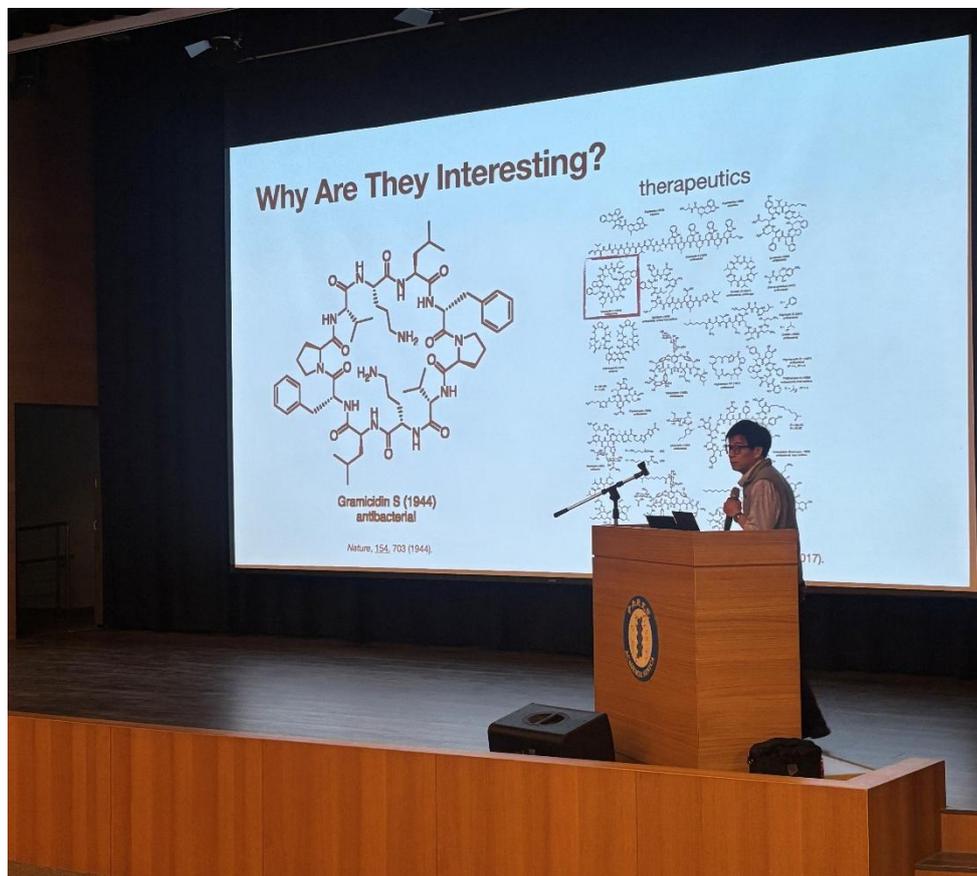
圖三、中央研究院化學研究所吳台偉所長為吳陳映雪博士紀念講座進行開場



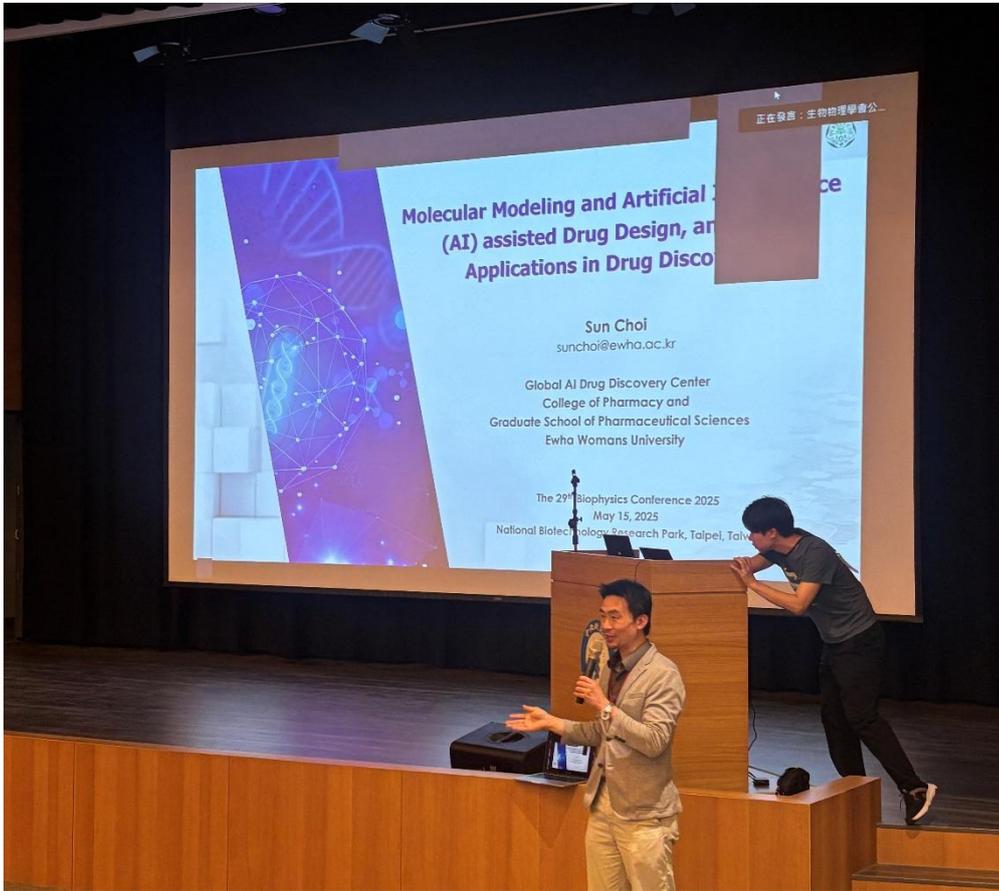
圖四、本次研討會之 Keynote Speaker — 中央研究院生物醫學科學研究所 Dr. Carmay Lim (林小喬博士) 研究員進行專題演講



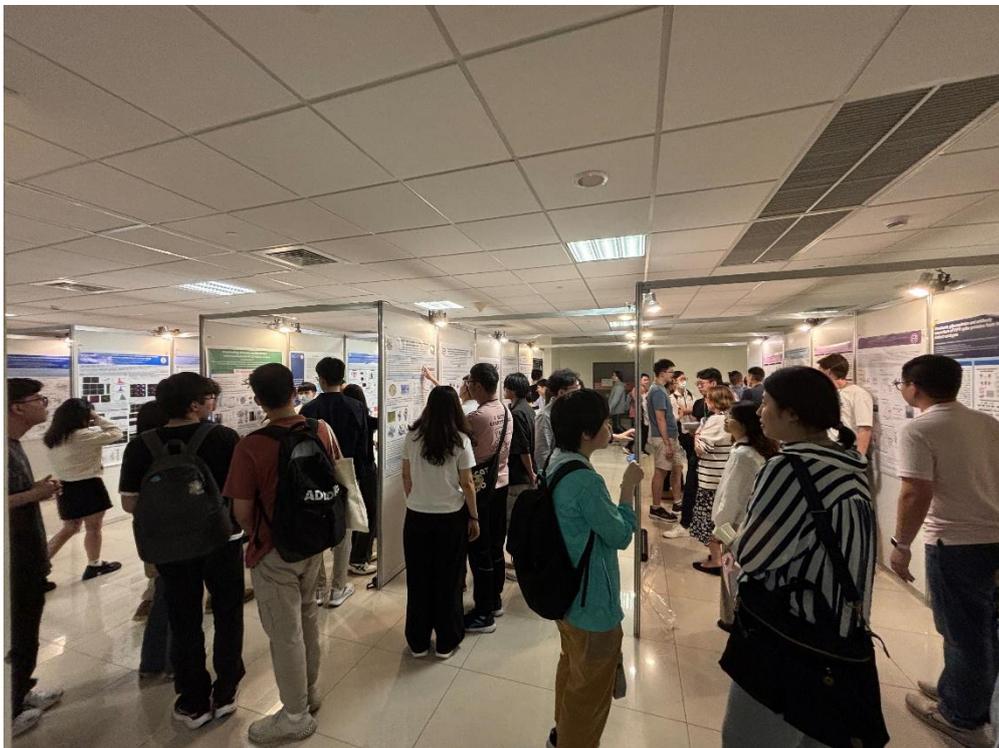
圖五、美國加州大學聖地牙哥分校特聘教授 Dr. Bradley S. Moore 進行專題演講



圖六、美國普林斯頓大學楊皓教授進行專題演講



圖七、台韓生物物理學會交流 — Dr. Sun Choi 透過遠端連線進行專題演講



圖八、壁報評審以及學生在壁報展示期間進行討論



圖九、A 組壁報競賽優勝者合影



圖十、B 組壁報競賽優勝者與指導老師以及詹迺立理事長合影



圖十一、C組壁報競賽優勝者與詹迺立理事長合影



圖十二、本次研討會之大合影