

Thesis Award Schedule

Friday, March 6, 2026

大專生新秀獎 A (College Student Research Award A)		
Location: 化學館一樓 T107		
Time: 13:00-16:45 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
CSA01 A0053	13:00-13:15	A Versatile Heteroatom Nucleophile Hub Enabling Divergent Thiol and Amine Bioconjugate Synthesis Yude Chuang, 國立臺灣大學
CSA02 A0103	13:15-13:30	Design of High-Efficiency Quinoxaline-Based Exciplex Materials for OLED 珮瑜 賴, 靜宜大學
CSA03 A0022	13:30-13:45	Synthesis of Heterobiaryl via [4+2] Annulation by Sulfonyl Indole Derivatives and 2-Arylidene-1,3-Indandione Yueh-Hsun Kuo, National Taiwan Normal University
CSA04 A0105	13:45-14:00	Chemoselective [2+3] and [4+3] cycloaddition of α-bromohydroxamates and 2,3-dioxopyrrolidines Chueh-Chien Liu, 國立中興大學
	14:00-14:15	休息時間 Break Time
CSA05 A0019	14:15-14:30	Design and Synthesis of Novel D-A'-π-A Organic Dyes for Dye-Sensitized Solar Cells Fang-I SU, Academia Sinica
CSA06 A0030	14:30-14:45	Silica Promoted Mechanochemical Bromination of Pyrazoles by Ball-Milling Ru-Min Tsai, National Taipei University of Technology
CSA07 A0037	14:45-15:00	1. Direct Synthesis of Enamines via Addition of Grignard Reagents to N, N-Dialkylacetamide : Application to One-Pot α-Secondary Amine Synthesis 2. Stereoselective Synthesis of Trisubstituted Vinylsilanes via Nickel-Catalyzed Cross-Coupling/Isomerization of Silyl Enol Ethers Chia-Hui Chen, National Kaohsiung Normal University
CSA08 A0038	15:00-15:15	Tuning Photophysical Properties of Phosphorescent Ruthenium-(Aromatic-Ligand) Chromophore: Metal-to-Ligand Charge-Transfer Phosphorescence-Energy Variation from Red to Near-Infrared Tzu-En Chen, 輔仁大學
CSA09 A0104	15:15-15:30	Site-Selective Control of Sialylation by Chemoenzymatic Method and Protecting Group Modulation Strategy Yu-Tong Lin, National Tsing Hua University
	15:30-15:45	休息時間 Break Time
CSA10 A0118	15:45-16:00	Design and Synthesis of New Type Keto-Bridged Polyphenol Ligand Yun-Shi Yang, 國立陽明交通大學
CSA11 A0066	16:00-16:15	Study on the Use of Sulfoxides as Challenging Electrophiles in Suzuki Cross-Coupling Reactions Catalyzed by Pd-NAPA Precatalyst Yi-Jie Tsai, Providence University
CSA12 A0110	16:15-16:30	Emission-tunable Iridium Complexes Covering the Blue-Green to near-Infrared Region for LEC Applications 昀蓉 李, 靜宜大學

CSA13 A0044	16:30-16:45	NHC-Fused Metalloporphyrins as Tunable Catalysts for Electrocatalytic CO₂ Reduction: Homogenous Activity and Surface Modification An Yu Yang, Kaohsiung Medical University
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Friday, March 6, 2026

大專生新秀獎 B (College Student Research Award B)		
Location: 化學館一樓 T112		
Time: 13:30-16:00 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
CSB01 A0064	13:30-13:45	A Metal-Free Phthalocyanine Additives for Defect Passivation and Processing Tolerance in High-Efficiency Perovskite Solar Cells Chuan Hung Huang, Tamkang University
CSB02 A0035	13:45-14:00	Synthesis of Shape-Controlled Silver Bromide Nanoparticles and Application in Photocatalytic Reactions and Coupling Reactions of Aldehydes, Alkynes, and Amines Hung Sheng Pin, NTHU
CSB03 A0086	14:00-14:15	Design and Synthesis of Through-Space Charge-Transfer TADF Molecules Based on Triptycene as Bridge Ya-Hsuan Lin, 國立清華大學
CSB04 A0100	14:15-14:30	Incorporating Heavy Atom Effect onto Molecular Rotors for Realizing Exceptionally Photocatalytic Oxidation Reaction Under Low-Temperature Conditions Wen-chu Wu, 天主教輔仁大學
CSB05 A0009	14:30-14:45	Exploring Tb³⁺-Mediated Interactions with Glutathione-Capped Gold Nanoclusters to Develop a Fluorophore-Modified Ratiometric Probe toward Lactoferrin Chun-Hsin Kuo, National Sun Yat-sen University
	14:45-15:00	休息時間 Break Time
CSB06 A0027	15:00-15:15	Isomeric Halide Engineering of Self-Assembled Hole-Selective Layers for Efficient Indoor Perovskite Photovoltaics Yi Ting Hong, Soochow University
CSB07 A0058	15:15-15:30	Sensitivity Enhancement of Multiplex Lateral Flow Immunoassays by NIR-II Fluorescence and Thermal Contrast Chun Yang Huang, National Yang Ming Chiao Tung University
CSB08 A0111	15:30-15:45	Paper-Based Microfluidic Resistive Sensor Composed of (Cu-S)_n MOF-Polyaniline for Detection of Early Secreted Antigenic Target 6 kDa Protein Yi-Hua Lu, Fu Jen Catholic University
CSB09 A0078	15:45-16:00	Designing the Exclusive α_{1,4}-fucosyltransferase by protein Structure Simulation and Protein Engineering Strategies Wei-Zhe Su, National Tsing Hua University

Friday, March 6, 2026

無機化學 (Inorganic Chemistry)		
Location: 化學館一樓 T108		
Time: 13:30-14:15 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
ICo1 A0088	13:30-13:45	Investigation of the Decomposition Behavior of Cs₂AgBiBr₆ Lead-Free Double Perovskite Yu-Chen Hong, National Taiwan University
ICo2 A0045	13:45-14:00	Unexpected Rebound in Iron(IV)-oxo Ethylene-Bridged Dialkylcyclam Species [FeIV(O)(EBC-1Me-1py)]₂+ During C-H Activation Yi-Hsin Chen, 國立高雄師範大學
ICo3 A0031	14:00-14:15	Upcycling of Waste Aluminum Alloys and Surface Modification of Anodized Aluminum Alloys: Techniques and Applications Lin-Ruei Lee, 國立陽明交通大學

有機化學 (Organic Chemistry)		
Location: 化學館一樓 T114		
Time: 13:30-15:30 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
OC01 A0048	13:30-13:45	Strain-Release Diversification of 1-Azabicyclobutanes via Bromide/Nickel Relay Catalyzed 1,3-Bis-Carbofunctionalization Yi-Hua Lee, National Sun Yat-sen University
OC02 A0015	13:45-14:00	Diversity-Oriented Synthetic Strategies: Phosphine-mediated Synthesis of Heteroaromatics and C-acylated Compounds Durga Prasad Gurram, National Taiwan Normal University
OC04 A0010	14:00-14:15	Synthetic Application of Sulfonyl Derivatives as α-Carbonyl EDOs' Precursors: I: PIII/O=P-V-Catalyzed Intramolecular Wittig reaction II: Enantioselective Sequential Michael Addition-Transesterification via Bifunctional Tertiary Amine Catalyst Bo-Xuan Pan, National Taiwan Normal University
	14:15-14:30	休息時間 Break Time
OC05 A0039	14:30-14:45	Total Synthesis of Cumbiasins : Construction of the C₃, C₆ and C₇ Stereocenters in the Cumbiane skeleton Yu-Tung Liu, National Health Research Institutes
OC06 A0093	14:45-15:00	Photochemical and Flow-Based Synthesis of N Functionalized Compounds from Sulfonyl Alkenes and Yones Tamilselvan Duraisamy, Kaohsiung Medical University
OC07 A0013	15:00-15:15	Synthesis, Characteristics, and Applications of Stretchable, Conductive, Multi-Responsive, and Self-Healable poly(ionic liquid) Composites Chia-Wei Chang, 國立陽明交通大學

Friday, March 6, 2026

物理化學 (Physical Chemistry)		
Location: 化學館四樓 T408A		
Time: 13:30-15:30 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
PC01 A0026	13:30-13:45	Laser Polarization-Driven Protein Crystallization via Optical Trapping Chen Tien, NATIONAL YANG MING CHIAO TUNG UNIVERSITY
PC02 A0043	13:45-14:00	Responsive Polymers in Macroscopic and Confined Environments: Behavior Regulation and Applications Yi-Fan Chen, National Yang Ming Chiao Tung University
PC03 A0055	14:00-14:15	Controlling rGO Functionalities and Designing a Self-Assembled 3D Hydrogel Network for Flexible Solid-State Supercapacitors Yen-Hsuan Li, National Cheng Kung University
PC04 A0068	14:15-14:30	Exploring the Secondary Nucleation Dynamics of Amyloid-β Proteins on Fibril Surfaces Using Molecular Dynamics Simulations Guan-Fang Wang, National Chung Cheng University
	14:30-14:45	休息時間 Break Time
PC05 A0079	14:45-15:00	First-Principles and Data-Driven Investigation of Single and Double Transition Metal Atom-Doped 2D Materials for Sustainable Electrochemical Reactions Dinesh Kumar Dhanthala Chittibabu, Chung Yuan Christian University
PC06 A0006	15:00-15:15	Investigation of the Vibrational Structure of BiTeI and the Photocatalytic CO₂ Reduction Mechanism by PbBiO₂I/GO Fu-Yu Liu, National Tsing Hua University
PC07 A0087	15:15-15:30	Phenomenon and Mechanism of Light-Induced Ion Migration in Halide Perovskites: Impact on and Optimization of Photovoltaic Performance in Perovskite Solar Cells Po-Kai Kung, National Chi Nan University

Friday, March 6, 2026

化學生物 (Chemical Biology)/藥物化學 (Medicinal Chemistry)		
Location: 化學館六樓 T628		
Time: 13:30-15:00 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
CMo1 A0089	13:30-13:45	I. Design and Synthesis of Fluoroquinolone Derivatives as Pannexin1 Inhibitors for the Treatment of Colitis II. Improving the Water Solubility of Cathepsin S Inhibitors for Applications in Neurological Disorders Wen Yun Hsueh, 財團法人國家衛生研究院
CMo2 A0072	13:45-14:00	Phosphotyrosine Spectral Library-enhanced DIA Mass Spectrometry Enables Machine Learning-powered Companion Biomarker Discovery in Lung Cancer Shen-Shian Chan, 國立臺灣大學
CMo3 A0081	14:00-14:15	Versatile Stimuli-Responsive Pinanediol Cages for Boronic Acids in Biological Systems: Dynamic Assembly and Release Kao ChihYao, National Taiwan University
CMo4 A0096	14:15-14:30	Characterization of Fucosyltransferases in Akkermansia sp. and Bacteroides fragilis Reveals Insights into Substrate Specificity Yung-Jen Cheng, 國立清華大學
CMo5 A0097	14:30-14:45	Measurement and Modulation of Human Exo-Glycosidase Activity Ting-Ya Yang, Academia Sinica
CMo6 A0054	14:45-15:00	Target Identification of a Marine Natural Product Using a Chemoproteomics Approach Wan-Chi Hsiao, NHRI

分析化學 (Analytical Chemistry)		
Location: 化學館一樓研討室 T106B		
Time: 13:30-14:15 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
ANo1 A0008	13:30-13:45	Copper Nanoparticles-Based Signal Enhancement for Detecting Human Albumin Serum by Liquid Crystal-Based Immunoassay Muhammad Umer Saeed, National Taiwan University, Taiwan
ANo2 A0052	13:45-14:00	Bi-layered Microfluidic Device with Immobilized Solid Reagents for On-Site Total Analysis of a Cup of Coffee Shun-Ren Ke, National Taiwan University
ANo3 A0080	14:00-14:15	Developing a New Type of Paper-Based Biosensor Using Metal Organic Frameworks Combined with Exponential Rolling Circle Amplification Siang Ren Yu, Chung Yuan Christian University

Friday, March 6, 2026

應用化學 (Applied Chemistry)		
Location: 化學館六樓 T609		
Time: 13:30-16:00 (GMT+8)		
10 Minutes Presentation + 5 Minutes Q&A		
AP01 A0023	13:30-13:45	Breathable, Underwater-Adhesive, and Intrinsically Self-Healing Fabrics Enabled by Nanoparticle-Polymer Gel Coatings Tsung-Hung Tsai, 國立陽明交通大學
AP02 A0117	13:45-14:00	Trigger-Responsive Peptidyl Liposomes as Smart MRI Contrast Agents for Disease Detection Cheng-Banng Jian, 中央研究院 / 國立台灣大學
AP03 A0051	14:00-14:15	Precise Chemical Positioning via Spatial Interface Vapor Initiation Pei-Yu Wang, National Taiwan University
AP04 A0094	14:15-14:30	Enzymatic Total Synthesis of Fucosylated iso-Human Milk Oligosaccharides with Free-Reducing Ends Kuei-Jung Liang, 國立清華大學
AP05 A0032	14:30-14:45	Synthesis of Sulfonylimide-Based Single-Ion Conducting Porous Organic Polymers for Solid Electrolytes in Lithium-Ion Batteries Pin-Jyun Chen, 國立中山大學
	14:45-15:00	休息時間 Break Time
AP06 A0095	15:00-15:15	Chemical Synthesis of L-Olivomycose, D-Olivose, and D-Oliose: 2,6-Dideoxysaccharide Units Found in Bioactive Natural Products Keng Hsien Lin, 清華大學
AP07 A0024	15:15-15:30	Surface Engineering and Functionalization of Nanopores: Mechanical Stretching and Chemical Grafting Approaches YuChun Liu, 國立陽明交通大學
AP08 A0071	15:30-15:45	Engineered Non-Transition Metal Chalcogenides as Functional Nanozymes for Biosensing and Anti-Biofouling Sagar Sunil Kulkarni, National Sun Yat-sen University
AP09 A0034	15:45-16:00	Fabrication and Analysis of Multi-Responsive, Conductive, and Self-Healable Poly(Ionic Liquid)s Films Chia Ti Wu, 國立陽明交通大學