



生物科技學士學位學程第 **16** 屆  
Bachelor Program in Biotechnology

# 研究室學習成果發表會



中華民國115年6月15日

# 生物科技學士學位學程

## 114 學年度 研究室學習成果發表會

115 年 6 月 15 日 (星期一)

地點：國際農業研究中心大樓五樓 543C 教室

序號	主講人	研究主題	指導教授
(1) 8:00	鄧莉莉	<ul style="list-style-type: none"> <li>★ Enhancement of Soybean Meal Quality Through Enzymatic Hydrolysis and Microbial Fermentation</li> <li>★透過酵素水解與微生物發酵提升大豆粕品質</li> </ul>	動科系 李滋泰老師
(2) 8:15	卓瑾	<ul style="list-style-type: none"> <li>★ Evaluation of Growth Performance and Health Status in Leopard Geckos Fed with "Exotic Corner - Gecko Insect Paste" as a Staple Diet</li> <li>★「角落特寵-守宮蟲泥主食」作為豹紋守宮主食之成長效能與健康評估研究</li> </ul>	動科系 李滋泰老師
(3) 8:30	李羿萱	<ul style="list-style-type: none"> <li>★ Evaluation of Antiviral Potential in pH7W-COCP Transgenic <i>Phalaenopsis</i> V3 Using Detached-Leaf Inoculation and GFP-Based Screening</li> <li>★利用離體葉片接種與 GFP 螢光篩選評估 pH7W-COCP 轉殖大白蝴蝶蘭 V3 之抗病毒潛力</li> </ul>	生技所 黃纓雯老師
(4) 8:45	黃閔暄	<ul style="list-style-type: none"> <li>★16SrII-A Subgroup '<i>Candidatus</i> Phytoplasma Aurantifolia'-related Strain Infecting <i>Crotalaria juncea</i> L. in Taiwan</li> <li>★16SrII-A 亞群 '<i>Candidatus</i> Phytoplasma Aurantifolia' 相關菌株在臺灣感染太陽麻</li> </ul>	生化所 楊俊逸老師
(5) 9:00	廖英婷	<ul style="list-style-type: none"> <li>★ Proteomics Qualitative and sMRM<sup>HR</sup> Method Establishment of Rice Sheath Blight Mutants</li> <li>★水稻紋枯病之蛋白質體學定性與 sMRM<sup>HR</sup> 方法建立</li> </ul>	分生所 賴建成老師
(6) 9:15	謝奕翔	<ul style="list-style-type: none"> <li>★ Preliminary experiment exploring the role of PQQ in plant growth and stress tolerance</li> <li>★探討 PQQ 在植物生長以及逆境耐受性中所扮演的角色之前導實驗</li> </ul>	基資所 陳玉婷老師
(7) 9:30	鍾采妍	<ul style="list-style-type: none"> <li>★ Optimization of Electrolytes for Precise Identification of Copper Oxide Phases and Thickness Measurement by Coulometric Reduction</li> <li>★優化電解液於庫倫還原法辨識銅氧化相與厚度之精準量測</li> </ul>	材料系 宋振銘老師
(8) 9:45	朱禹丞	<ul style="list-style-type: none"> <li>★ Investigation of the Impact of NR1D1 on the Growth Rate of Mouse Embryonic Fibroblasts</li> <li>★探討 NR1D1 對胚胎纖維母細胞的生長速率影響</li> </ul>	生化所 邱奕穎老師
(9) 10:00	蔡環安	<ul style="list-style-type: none"> <li>★ BCL-2 Inhibitor Prevents Ex Vivo Expansion-Induced Senescence in Human <math>\gamma\delta</math>2T Cells and Enhances Their Antitumor Fitness Against Triple-Negative Breast Cancer and Glioblastoma</li> <li>★ BCL 2 抑制劑抑制人類 <math>\gamma\delta</math>2T 細胞體外擴增誘導老化及增強對三陰性乳癌與膠質母細胞瘤的抗腫瘤免疫功能</li> </ul>	組醫學程 劉炯輝老師
10:15~10:20		Break	
(10) 10:20	湯文俊	<ul style="list-style-type: none"> <li>★ Structural Investigation of Next-Generation Clathrin Terminal Domain Inhibitors</li> <li>★次世代網格蛋白末端結構域抑制劑之結構研究</li> </ul>	生化所 羅文廷老師

(11) 10:35	林芊佳	<ul style="list-style-type: none"> <li>★ <b>Biochemical Characterization of INPP4A/B Regulation via Their C2 Domains</b></li> <li>★利用 C2 結構域探討 INPP4A/B 調控機制之生化特性</li> </ul>	生化所 羅文廷老師
(12) 10:50	莊詠舜	<ul style="list-style-type: none"> <li>★ <b>Developing a Novel Thermo-Responsive Hydrogel to Improve Wound Microenvironment: Inhibition of Inflammatory Genes, Antibacterial Mechanism, and Clinical Potential</b></li> <li>★開發新型溫感原位成形水膠改善傷口微環境：探討其抑制發炎基因表達、廣譜抗菌機制及其臨床應用潛力</li> </ul>	醫工所 王惠民老師
(13) 11:05	許雅婷	<ul style="list-style-type: none"> <li>★ <b>Chitosan supported lipid nanocarriers with formulation optimization for EGFR inhibitor delivery in anti scarring wound therapy</b></li> <li>★具配方最佳化之幾丁聚醣支撐脂質奈米載體於 EGFR 抑制劑遞送與抗疤痕傷口治療之應用</li> </ul>	醫工所 王惠民老師
(14) 11:20	黃佩雯	<ul style="list-style-type: none"> <li>★ <b>Biochemical and Structural Analysis of Ec477, a Helicase-Nuclease Protein in Bacterial Abortive Infection-Mediated Antiphage Defence s</b></li> <li>★ Ec477 解旋酶-核酸酶蛋白於細菌抗噬菌體防禦中頓挫感染的生化與結構分析</li> </ul>	生化所 林佳良老師
(15) 11:35	張凱翔	<ul style="list-style-type: none"> <li>★ <b>Crystal Structure of the nuclease domain of Nhi from <i>Staphylococcus aureus</i></b></li> <li>★金黃色葡萄球菌 Nhi 核酸酶結構域之晶體結構解析</li> </ul>	生化所 林佳良老師
(16) 11:50	謝旻真	<ul style="list-style-type: none"> <li>★ <b>Molecular Mechanisms of Endoplasmic Reticulum Stress Induction in Host Cells by Placenta-Specific Genes of <i>Listeria monocytogenes</i></b></li> <li>★李斯特菌胎盤特異性基因誘導宿主細胞內質網壓力之分子機制</li> </ul>	生科系 蔡濬鈺老師
(17) 12:05	吳育綺	<ul style="list-style-type: none"> <li>★ <b>Evaluation of the Impact of Disrupting the KtrA-KtrB Interaction Interface on Potassium Ion Transport Function</b></li> <li>★破壞 KtrA-KtrB 交互作用介面對鉀離子運輸功能之影響評估</li> </ul>	生化所 胡念仁老師
(18) 12:20	林承安	<ul style="list-style-type: none"> <li>★ <b>Enhancing the Bactericidal Activity of Colicin via Genetic Engineering: Development of a Novel Antimicrobial Agent against ETEC Infection in Weaned Piglets</b></li> <li>★以基因工程技術提升大腸桿菌素殺菌活性：開發針對離乳仔豬 ETEC 感染之新型抗菌製劑</li> </ul>	生化所 胡念仁老師
12:35~13:00		Lunch	
(19) 13:00	談采曉	<ul style="list-style-type: none"> <li>★ <b>Evaluation of the Efficacy of Kefir Peptides in PM2.5-Induced Neuroinflammation and Depression</b></li> <li>★克弗爾胜肽對 PM2.5 導致腦部發炎與憂鬱症之功效評估</li> </ul>	生科系 陳全木老師
(20) 13:15	黃璽恩	<ul style="list-style-type: none"> <li>★ <b>Repurposing Coffee Waste: Investigating Anti-Cancer Activities of Spent Coffee Ground in a 3D Tumor Microenvironment</b></li> <li>★咖啡廢棄物再利用：探討咖啡渣在三維腫瘤微環境中的抗癌活性</li> </ul>	醫工所 程華強老師
(21) 13:30	陳宜瑄	<ul style="list-style-type: none"> <li>★ <b>Integration of Microfluidic Chips and 3D Tumor Spheroids for a Drug Screening Platform: Exploring the Interaction between Macrophages and the Tumor Microenvironment</b></li> <li>★整合微流體晶片與 3D 腫瘤球之藥物篩選平台：探討巨噬細胞與腫瘤微環境之交互作用</li> </ul>	醫工所 程華強老師
(22) 13:45	溫鳳閔	<ul style="list-style-type: none"> <li>★ <b>Roles of PRDM16 in circSDHAF2-Induced Lipid Metabolism in Breast Cancer Cells</b></li> <li>★ PRDM16 在環型核糖核酸引發脂質代謝之角色探討</li> </ul>	生化所 蕭貴陽老師

(23) 14:00	覺欣琳	<ul style="list-style-type: none"> <li>★ Analysis of Histone Deacetylases in the Regulation of Replicating Pericentric Heterochromatin (r-PCH)</li> <li>★組蛋白去乙酰化酶於 r-PCH 調控之分析</li> </ul>	分生所 楊文明老師
(24) 14:15	金香妤	<ul style="list-style-type: none"> <li>★ Screening JMJD2A, DNMT1, and HLF1 in Heterochromatin Replication</li> <li>★表觀遺傳學酵素 JMJD2A、DNMT1、HLF1 篩選參與異染色質的研究</li> </ul>	分生所 楊文明老師
(25) 14:30	吳承謙	<ul style="list-style-type: none"> <li>★ Loss of AhR Promotes Lung Fibrosis via PLOD2-Mediated Collagen Cross-linking</li> <li>★芳香煙受體 (AhR) 缺失透過 PLOD2 介導的膠原蛋白交聯促進肺纖維化</li> </ul>	生醫所 許美鈴老師
(26) 14:45	許佑誠	<ul style="list-style-type: none"> <li>★ A Novel CML-ROS-AhR-MTHFD2 Axis Regulates Vascular Pathology in Diabetic Retinopathy</li> <li>★新穎的 CML-ROS-AhR-MTHFD2 訊號軸調控糖尿病視網膜病變中的血管病理變化</li> </ul>	生醫所 許美鈴老師
(27) 15:00	廖凡誼	<ul style="list-style-type: none"> <li>★ Synthesis of Copper Complexes Bearing Nitrogen Heterocyclic Carbene Ligands</li> <li>★含氮雜環碳烯銅錯合物之合成</li> </ul>	化學系 李東昇老師
15:15~15:20		Break	
(28) 15:20	陳宥羽	<ul style="list-style-type: none"> <li>★ Impact of Exogenous Mitochondrial Intervention on Breast Cancer Progression Using 3D Tumor Spheroids</li> <li>★以 3D 腫瘤球探討外源粒線體介入對乳癌發展之影響</li> </ul>	醫工所 王國禎老師
(29) 15:35	毛子庭	<ul style="list-style-type: none"> <li>★ Preliminary Evaluation of the Tolerance of Human Umbilical Vein Endothelial Cells to Exogenous Mitochondrial Supplementation</li> <li>★外源粒線體添加對人類臍靜脈內皮細胞耐受度之初步評估</li> </ul>	醫工所 王國禎老師
(30) 15:50	李子賢	<ul style="list-style-type: none"> <li>★ Deciphering the Evolutionary Conservation of Viral Movement Protein Localization Signals Using the <i>Marchantia polymorpha</i> Model</li> <li>★利用地錢模型解析植物病毒移動蛋白定位訊號演化保守性：結合 TurboID 鑑定原生質絲互作蛋白組</li> </ul>	生技所 呂冠儒老師
(31) 16:05	李薇妮	<ul style="list-style-type: none"> <li>★ Vertically Aligned Nanostructure-Based Biosensor for Serum Antibody Detection of Porcine Mycoplasma Arthritis and Septicemia</li> <li>★利用具直立奈米結構生物感測器偵測血清抗體用於豬隻黴漿菌性關節炎伴隨敗血症之疾病檢測</li> </ul>	陽明交通 電機系 林淑萍老師
(32) 16:20	簡岑恩	<ul style="list-style-type: none"> <li>★ Study on the Regulatory Effects of <i>Orobanchae Coerulescens</i> on Ovarian Cancer Cell Proliferation, Epithelial-Mesenchymal Transition, and Chemoresistance</li> <li>★ <i>Orobanchae coerulescens</i> 對於卵巢癌細胞增生、EMT 與抗藥性調控之研究</li> </ul>	生科系 李龍緣老師
(33) 16:35	林靖翔	<ul style="list-style-type: none"> <li>★ To evaluate the effects of fine particulate matter-induced inflammaging in C2BBel intestinal cells</li> <li>★探討細懸浮微粒暴露對 C2BBel 腸道上皮細胞發炎性老化之影響</li> </ul>	生科系 賴財春老師
(34) 16:50	林威翰	<ul style="list-style-type: none"> <li>★ Flavor Modulation of Arabica Coffee by Brewing Yeast Fermentation: Microbial Application Potential and Sensory Evaluation</li> <li>★以釀酒酵母調控之阿拉比卡咖啡發酵風味表現：微生物應用潛力分析與感官品評</li> </ul>	生技所 蔡慶修老師
(35) 17:05	莊羿庭	<ul style="list-style-type: none"> <li>★ Comparative Study on Drug Release from Glycan-Functionalized Carriers Triggered by Senescence-Associated <math>\beta</math>-Galactosidase</li> <li>★衰老細胞 <math>\beta</math>-半乳糖苷酶與醣類修飾載體之藥物釋放比較研究</li> </ul>	醫工所 賴千蕙老師
(36) 17:20	何亮欣	<ul style="list-style-type: none"> <li>★ Mannose-Modified Catalase Nanocarriers for Improving Triple-Negative Breast Cancer Treatment in 3D Spheroids</li> <li>★甘露糖修飾過氧化氫酶奈米載體改善三陰性乳癌 3D 細胞球之缺氧微環境</li> </ul>	醫工所 賴千蕙老師
師長講評			