

# 研究生專題討論列表

106 學年度第 1 學期

## A 班：分生細胞組

| 報告<br>順序 | 報告日期  | 學生姓名   | 指導教授 | 題目                                                                                                                      |
|----------|-------|--------|------|-------------------------------------------------------------------------------------------------------------------------|
| 1        | 11.15 | 鄭宇恆    | 林翰佳  | Engineered CRISPR-Cas9 nucleases with altered PAM specificities.                                                        |
| 2        | 11.15 | 康佳慧    | 林翰佳  | Genome-wide specificities of CRISPR-Cas Cpf1 nucleases in human cells.                                                  |
| 3        | 11.22 | 施義承    | 劉信孚  | influence of donor age on induced pluripotent stem cells                                                                |
| 4        | 11.22 | 謝正明    | 黃培安  | Multiplex gene editing by CRISPR-Cpf1 using a single crRNA array.                                                       |
| 5        | 11.29 | 蔡佳伶    | 許濤   | HLA-E-expressing pluripotent stem cells escape allogeneic responses and lysis by NK cells.                              |
| 6        | 11.29 | 李育辰    | 唐世杰  | Targeting genomic rearrangements in tumor cells through Cas9-mediated insertion of a suicide gene.                      |
| 7        | 12.06 | 吳禹萱    | 許濤   | Lipid production in <i>Nannochloropsis gaditana</i> is doubled by                                                       |
| 8        | 12.06 | Imelda | 許濤   | Engineered bacteria can function in the mammalian gut long-term as live diagnostics of inflammation.                    |
| 9        | 12.13 | 陳為達    | 陳秀儀  | CRISPR-Cas9 epigenome editing enables high-throughput screening for functional regulatory elements in the human genome. |
| 10       | 12.13 | 林怡彰    | 張繼堯  | Genome-scale deletion screening of human long non-coding RNAs using a paired-guide RNA CRISPR-Cas9 library.             |
| 11       | 12.20 | 何致晴    | 黃培安  | Canola engineered with a microalgal polyketide synthase-like system produces oil enriched in docosahexaenoic acid.      |
| 12       | 12.20 | 王昕雯    | 林翰佳  | Lipid production in <i>Yarrowia lipolytica</i> is maximized by engineering cytosolic redox metabolism                   |

B 班：胚胎發育組

| 報告<br>順序 | 報告日期  | 學生姓名 | 指導教授 | 題目                                                                                                                         |
|----------|-------|------|------|----------------------------------------------------------------------------------------------------------------------------|
| 1        | 10/25 | 游凱傑  | 何國牟  | ATF4 regulates lipid metabolism and thermogenesis                                                                          |
| 2        | 10/25 | 柯翊淳  | 胡清華  | Erythropoietin improves hypoxic-ischemic encephalopathy in neonatal rats after short-term anoxia by enhancing angiogenesis |
| 3        | 11/01 | 芮思   | 何國牟  | Loss of mtch2 function impairs early development of liver, intestine and visceral adipocytes in zebrafish larvae           |

C 班：生醫奈米組

| 報告<br>順序 | 報告日期  | 學生姓名 | 指導教授 | 題目                                                                                                                                                                             |
|----------|-------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | 11/1  | 莊蕎繹  | 黃志清  | Mass Spectrometry for Paper-Based Immunoassays: Toward On- Demand Diagnosis                                                                                                    |
| 2        | 11/1  | 林佩萱  | 蘇政寬  | Nanoparticle biointerfacing by platelet membrane cloaking                                                                                                                      |
| 3        | 11/8  | 陳婉郡  | 陳秀儀  | Fibrin-Targeted and H <sub>2</sub> O <sub>2</sub> -Responsive Nanoparticles as a Theranostics for Thrombosed Vessels                                                           |
| 4        | 11/8  | 陳景儒  | 陳秀儀  | High-throughput quantitation of inorganic nanoparticle biodistribution at the single-cell level using mass cytometry                                                           |
| 5        | 11/15 | 謝瑞   | 王志銘  | Highly Stable Zr(IV)-Based Metal–Organic Frameworks for the Detection and Removal of Antibiotics and Organic Explosives in Water                                               |
| 6        | 11/15 | 許柏盛  | 許邦弘  | pGlyco 2.0 enables precision N-glycoproteomics with comprehensive quality control and one-step mass spectrometry for intact glycopeptide identification                        |
| 7        | 11/22 | 黃皞心  | 黃志清  | Mimicking Horseradish Peroxidase Functions Using Cu <sup>2+</sup> -Modified Carbon Nitride Nanoparticles or Cu <sup>2+</sup> -Modified Carbon Dots as Heterogeneous Catalysts. |
| 8        | 11/22 | 許育璋  | 許富銀  | Flexible Yttrium-Stabilized Zirconia Nanofibers                                                                                                                                |
| 9        | 11/29 | 李孟峰  | 林秀美  | Irinotecan Delivery by Lipid-Coated Mesoporous Silica Nanoparticles Shows Improved Efficacy and Safety over Liposomes for Pancreatic Cancer                                    |
| 10       | 11/29 | 鄒旻軒  | 林秀美  | Extra-Large Pore Mesoporous Silica Nanoparticles for Directing in Vivo M2 Macrophage Polarization by Delivering IL- 4                                                          |
| 11       | 12/6  | 劉孟筑  | 許邦弘  | Label-Free, In-Solution Screening of Peptide Libraries for Binding to Protein Targets Using                                                                                    |

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|----------|-------|------|------|--------------------------------------------------------------------------------------|
|          |       |      |      | Hydrogen Exchange Mass Spectrometry                                                  |
| 12       | 12/6  | 程冠瑋  | 林秀美  | A Pathogen-Specific Cargo Delivery Platform Based on Mesoporous Silica Nanoparticles |
| 13       | 12/13 | 劉璿光  | 許邦弘  | A thiol probe for measuring unfolded protein load and proteostasis in cells          |
| 14       | 12/13 | 黃駿   | 許邦弘  | Analysis of MHC immunopeptidomes using mass spectrometry                             |