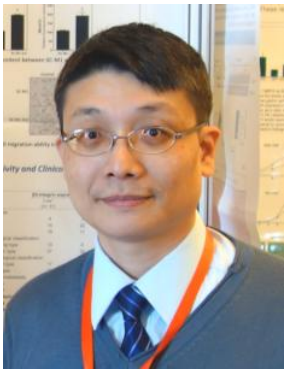
李新城　教授

Hsin-Chen Lee, Ph.D.



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學歷:

1.國立陽明大學生物化學研究所 博士〔1996 年 9 月至 2000 年 7 月〕
2.國立陽明大學生物化學研究所 碩士〔1992 年 9 月至 1994 年 6 月〕
3.國立陽明醫學院醫事技術學系 學士〔1988 年 9 月至 1992 年 6 月〕

專業證照：

1.醫事檢驗師
2.考試院醫事檢驗師檢覈及格

經歷:

陽明交通大學醫學院藥理學研究所	專任教授	2021/2～
陽明交通大學藥科院藥學系	合聘教授	2021/8～
國科會生技醫藥核心設施平台辦公室	主持人	2017/8～
陽明交通大學	特聘教授	2021/8～2023/7
台灣生醫品質保證協會	常務監事	2017/6～
台灣生醫品質保證協會	監事	2014/6～
臺灣粒線體醫學暨研究學會	理事	2006/8～
臺灣粒線體醫學暨研究學會	常務理事	2016/1～2021/12
陽明大學醫學院藥理學研究所	專任教授	2011/2～2021/1
陽明大學醫學院藥理學研究所	所長	2014/8～2020/7
陽明大學醫學系藥理學科	主任	2014/8～2020/7
陽明大學醫學系	PBL tutor	2004/8～2019/1
南加大 USC School of Pharmacy	Visiting Scholar	2015/8
台北市立聯合醫院	聘兼副研究員	2009/8～2010/7
陽明大學醫學院藥理學研究所	專任副教授	2006/8～2011/1

台北市立聯合醫院	聘兼助理研究員	2006/2～2009/7
陽明大學與中研院合辦分子醫學學程	教師	2005/8～2009/7
陽明大學醫學院藥理學科	專任助理教授	2003/8～2006/7
彰化基督教醫院	研究顧問	2003/1～2003/12
中山醫學大學生物化學研究所	專任助理教授	2001/8～2003/7
陽明大學生物化學研究所	博士後研究	2000/8～2001/7

學會會員：

1. The Taiwan Society for Biochemistry and Molecular Biology (台灣生物化學及分子生物學學會)
2. The Pharmacological Society in Taiwan (台灣藥理學會)
3. The Asian Society for Mitochondrial Research and Medicine
4. The Taiwan Society for Mitochondrial Research and Medicine（臺灣粒線體醫學暨研究學會）
5. 台灣生醫品質保證協會

榮譽：

1. 2004 年 3 月 榮獲陽明大學 92 學年度第一學期醫學系學生網路教學評鑑之優良教師
2. 2006 年 3 月 榮獲陽明大學 94 學年度第一學期醫學系學生網路教學評鑑之優良教師
3. 2006 年 9 月 榮獲陽明大學 94 學年度教學優良教師獎
4. 2006 年 11 月 榮獲陽明大學 94 學年度第二學期醫學系學生網路教學評鑑之優良教師
5. 2007 年 4 月 榮獲陽明大學 95 學年度第一學期醫學系學生網路教學評鑑之優良教師
6. 2007 年 11 月 榮獲陽明大學 95 學年度第二學期醫學系學生網路教學評鑑之優良教師
7. 2008 年 4 月 榮獲陽明大學 96 學年度第一學期醫學系學生網路教學評鑑之優良教師
8. 2009 年 8 月 榮獲陽明大學 98-99 年度教師學術卓越獎勵
9. 2010 年 11 月 榮獲陽明大學 98 學年度第二學期醫學系學生網路教學評鑑之優良教師
10. 2011 年 5 月 榮獲陽明大學 99 年度教師學術卓越獎勵
11. 2011 年 8 月 榮獲教育部資深優良教師獎勵（10 年）
12. 2011 年 10 月 榮獲陽明大學 100-101 學年度教師學術卓越獎勵
13. 2011 年 10 月 榮獲陽明大學 99 學年度第二學期醫學系學生網路教學評鑑之優良教師
14. 2013 年 11 月 榮獲陽明大學 102-103 學年度教師學術卓越獎勵
15. 2014 年 5 月 榮獲陽明大學 102 學年度第一學期醫學系學生網路教學評量之優良教師
16. 2014 年 10 月 榮獲陽明大學 102 學年度第二學期醫學系學生網路教學評量之優良教師
17. 2015 年 11 月 榮獲陽明大學 103 學年度第二學期醫學系學生網路教學評估之優良教師
18. 2017 年 1 月榮獲陽明大學 105 學年度第一學期醫學系四年級 PBL 優良老師
19. 2017 年 10 月 榮獲陽明大學 105 學年度第二學期醫學系學生網路教學評估之優良教師
20. 2017 年 12 月 榮獲陽明大學 106-107 學年度教師學術卓越獎勵
21. 2018 年 1 月榮獲陽明大學 106 學年度第一學期醫學系四年級 PBL 優良老師
22. 2018 年 6 月榮獲陽明大學 106 學年度第二學期醫學系四年級 PBL 傑出教師
23. 2018 年 10 月 榮獲陽明大學 106 學年度第二學期醫學系學生網路教學評估之優良教師

24. 2018 年 11 月榮獲陽明大學 107 學年度第一學期醫學系四年級 PBL 優良老師
25. 2019 年 05 月 榮獲陽明大學 107 學年度第一學期醫學系學生網路教學評估之優良教師(琉璃獎座)
26. 2019 年 7 月 榮獲陽明大學 108-109 學年度教師學術卓越獎勵
27. 2019 年 11 月 榮獲陽明大學 107 學年度第二學期醫學系學生網路教學評估之優良教師
28. 2020 年 2 月 評定為陽明大學永久免接受評估教師
29. 2020 年 7 月 榮獲陽明大學 108 學年度第一學期醫學系學生網路教學評估之優良教師
30. 2020 年 11 月 榮獲陽明大學 108 學年度第二學期醫學系學生網路教學評估之優良教師
31. 2021 年 5 月 榮獲陽明大學 109 學年度第一學期醫學系學生網路教學評估之優良教師
32. 2021 年 8 月 榮獲教育部資深優良教師獎勵（20 年）
33. 2021 年 8 月 榮獲陽明交通大學 110-111 學年度績優教研人員
34. 2021 年 8 月 榮獲陽明交通大學 110-111 學年度特聘教授
35. 2021 年 11 月 名列 2020 年度科學影響力排行榜，全球排名前 2%科學家
36. 2022 年 10 月 名列 2021 年度科學影響力排行榜，全球排名前 2%科學家
37. 2022 年 10 月 名列 2021 終身科學影響力排行榜，全球排名前 2%科學家
38. 2023 年 8 月 榮獲陽明交通大學 112-113 學年度績優教研人員
39. 2023 年 10 月 名列 2022 年度科學影響力排行榜，全球排名前 2%科學家
40. 2023 年 10 月 名列 2022 終身科學影響力排行榜，全球排名前 2%科學家

國外研究計畫審查

1. The Czech Science Foundation, 2018, 2021
2. The National Science Center, Poland, 2020, 2022, 2023

學術期刊編審委員 Editorial Board Member：

1. Open Toxicology Journal (2007~2009)
2. BioMedicine (2008~2017; Editor 2009~2017)
3. Pharmacologia (2011~2014)
4. ISRN Molecular Biology (2011~2017)
5. World Journal of Gastrointestinal Oncology (Editor-in-Chief, 2011~2018)
6. World Journal of Biological Chemistry (2014~)
7. Open Biological Sciences Journal (Editor-in-Chief, 2016~2018)
8. Oxidative Medicine and Cellular Longevity (Guest Editor of Special Issue, 2016-2017)
9. Open Biology Journal (Co-Editor, 2018~)
10. International Journal of Oncology (2018~)
11. Universal Journal of Oncology (2018~)
12. Oncology Letters (2019~)
13. Mitochondrial Communications (2020~)
14. Biomolecules (Guest Editor of Special Issue, 2021)

期刊審查 Reviewer：

Adaptive Medicine // Advanced Science // African Journal of Biotechnology // African Journal of Pharmacy and Pharmacology // AGE // Aging Cell // Aging-US // Annals of Oncology // Annals of Surgical Oncology // Archivum Immunologiae et Therapiae Experimentalis // Archives of Biochemistry and Biophysics // Archives of

Gerontology and Geriatrics // Archives of Medical Research // Biomarkers // BBA - General Subjects // BBA - Molecular Basis of Disease // Biochemical Journal // Biologia // BioMed Research International // BioMedicine // Biomedicine & Pharmacotherapy // Bioscience Reports // BMC Research Notes // BMC Cancer // Brain Research // British Journal of Cancer // British Journal of Medicine and Medical Research // Cancer Cell International // Cancer Letters // Cancer Research // Cancers // Cells // Cell Biology International // Cell Biology and Toxicology // Cell Death & Disease // Cell Proliferation // Cellular Signalling // Chinese Journal of Physiology // Clinical Medicine-Oncology // Clinical and Translational Medicine // Contemporary Oncology // Current Alzheimer Research // Current Computer-Aided Drug Design // Current Issues in Molecular Biology // Endocrine // European Journal of Clinical Investigation // European Journal of Surgical Oncology // Evidence-Based Complementary and Alternative Medicine // Experimental and Therapeutic Medicine // Experimental Biology and Medicine // Experimental Cell Research // Experimental Dermatology // Expert Opinion on Medical Diagnostics // Expert Review of Gastroenterology & Hepatology // Free Radical Biology & Medicine // Food and Chemical Toxicology // Food & Function // Frontiers in Bioscience // Frontiers of Medicine // Healthcare // Human Mutation // Inflammation // International Journal of Biochemistry and Cell Biology // International Journal of Cancer // International Journal of Gynecological Cancer // International Journal of Medical Sciences // International Journal of Molecular Medicine // International Journal of Molecular Sciences // International Journal of Nanomedicine // International Journal of Nutrition and Metabolism // International Journal of Oncology // International Journal of Preventive Medicine // International Journal of Radiation Biology // ISRN Molecular Biology // Journal of Biochemical and Molecular Toxicology // Journal of Biomedical Science // Journal of Cancer Research and Clinical Oncology // Journal of Cellular Biochemistry // Journal of Cellular and Molecular Medicine // Journal of Cellular Physiology // Journal of Human Genetics // Journal of International Medical Research // Journal of Leukocyte Biology // Journal of Molecular Cell Biology // Journal of Molecular Endocrinology // Journal of Rare Diseases Research & Treatment // Journal of Surgical Oncology // Journal of the Chinese Medical Association // Journal of Translational Medicine // Life // Malaysian Journal of Medicine & Health Sciences // Mechanisms of Ageing and Development // Metabolites // Mini-Reviews in Medicinal Chemistry // Mitochondrion // Mitochondrial DNA // Molecules // Molecular and Cellular Biochemistry // Molecular Carcinogenesis // Molecular Diagnosis & Therapy // Molecular Medicine Reports // Molecular Nutrition and Food Research // Mutation Research-Fundamental and Molecular Mechanisms of Mutagenesis // Nanomaterials // NAR Cancer // Nature Communications // Neoplasia // Neurobiology of Aging // Neurochemistry International // Neurotoxicity Research // Oncogene // Oncology Letters // Oncology Reports // Oncology Reviews // Oncotarget // OncoTargets and Therapy // Oxidative Medicine and Cellular Longevity // Pathology - Research and Practice // Pharmaceuticals // Pharmacogenetics and Genomics // Pharmacological Research // PLoS ONE // Protein & Cell // Radiation Oncology // Scientia Pharmaceutica // Scientific Reports // Stem Cells // Stem Cells and Development // The Open Toxicology Journal // Theranostics // Toxicology in Vitro // Toxins // World Journal of Biological Chemistry // World Journal of Experimental Medicine // World Journal of Gastroenterology // World Journal of Gastrointestinal Oncology (共 136 種期刊)

圓桌教育基金會課程：

1. 第一階：改變的力量-師鐸營 （第 371 期）
2. 第二階：效率影響力（第 80 期）；為人父母（第 59 期）

導師：

1. 92-93 學年度：醫學系 96 級四、五年級甲班導師
2. 94-97 學年度：醫學系 101 級一至四年級甲班導師
3. 98-101 學年度：醫學系 105 級一年級至四年級甲班導師
4. 103-108 學年度：醫學院藥理學研究所主任導師

研究興趣：

1. 惡性腫瘤細胞中能量代謝與粒線體 DNA 變異研究
2. 粒線體功能異常於癌細胞惡化進展之角色
3. 粒線體逆向訊息傳遞於癌細胞惡化進展之角色
4. 以癌細胞粒線體作為精準治療之藥物標的
5. 能量代謝與粒線體功能於幹細胞特性維持與分化之調控
6. 粒線體於氧化壓力反應之分子機制研究
7. 粒線體於細胞程式性死亡機制之研究
8. 抗癌藥物研發與作用機制研究

著作目錄：

期刊論文（主要著作）

1. Wang SF*, Chang YL, Liu TY, Huang KH, Fang WL, Li AFY, Yeh TS, Hung GY, **Lee HC*** (2023) Mitochondrial dysfunction decreases cisplatin sensitivity in gastric cancer cells through upregulation of integrated stress response and mitokine GDF15. **FEBS J.** In press. SCI
2. Wang SF, Tseng LM, **Lee HC*** (2023) Role of mitochondrial alterations in human cancer progression and cancer immunity. **J. Biomed. Sci.** 30, 61. SCI
3. Wang SF*, Chang YL, Fang WL, Li AFY, Chen CF, Yeh TS, Hung GY, Huang KH*, **Lee HC*** (2023) Growth differentiation factor 15 induces cisplatin resistance through upregulation of xCT expression and glutathione synthesis in gastric cancer. **Cancer Sci.** 114, 3301–3317. SCI
4. Wang SF, Chang YL, Tzeng YD, Wu CL, Wang YZ, Tseng LM*, Chen S*, **Lee HC*** (2021) Mitochondrial stress adaptation promotes resistance to aromatase inhibitor in human breast cancer cells via ROS/calcium up-regulated amphiregulin-estrogen receptor loop signaling. **Cancer Lett.** 523, 82-99. SCI
5. Chen MC, Hsu LL, Wang SF, Pan YL, Lo JF, Yeh TS, Tseng LM*, **Lee HC*** (2021) Salubrinal enhances cancer cell death during glucose deprivation through the upregulation of xCT and mitochondrial oxidative stress. **Biomedicines** 9, 1101. SCI
6. Wang SF, Huang KH, Tseng WC, Lo JF, Li AFY, Fang WL, Chen CF, Yeh TS, Chang YL, Chou YC, Hung HH*, **Lee HC*** (2020) DNAJA3/Tid1 is required for mitochondrial DNA maintenance and regulates migration and invasion of human gastric cancer cells. **Cancers** 12, 3463. SCI
7. Chen MC, Hsu LL, Wang SF, Hsu CY, **Lee HC***, Tseng LM* (2020) ROS mediate xCT-dependent cell death in human breast cancer cells under glucose

deprivation. **Cells** 9, 1598. SCI

8. Wang SF, Chen S, Tseng LM, **Lee HC*** (2020) Role of the mitochondrial stress response in human cancer progression. **Exp. Biol. Med.** 245, 861-878. SCI
9. Wang SF, Wung CH, Chen MS, Chen CF, Yin PH, Yeh TS, Chang YL, Chou YC, Hung HH*, **Lee HC*** (2018) Activated integrated stress response induced by salubrinal promotes cisplatin resistance in human gastric cancer cells via enhanced xCT expression and glutathione biosynthesis. **Int. J. Mol. Sci.** 19, 3389. SCI
10. Chen MS, Wang SF, Hsu CY, Yin PH, Yeh TS, **Lee HC***, Tseng LM* (2017) CHAC1 degradation of glutathione enhances cystine-starvation-induced necroptosis and ferroptosis in human triple negative breast cancer cells via the GCN2-eIF2α-ATF4 pathway. **Oncotarget** 8, 114588-114602. SCI
11. Yeh TC, Huang TT, Yeh TS, Chen YR, Hsu KW, Yin PH, **Lee HC***, Tseng LM* (2016) Mir-151-3p targets TWIST1 to repress migration of human breast cancer cells. **PLoS ONE** 11, e0168171. SCI
12. Wang SF, Chen MS, Chou YC, Ueng YF, Yin PH, Yeh TS, **Lee HC*** (2016) Mitochondrial dysfunction enhances cisplatin resistance in human gastric cancer cells via the ROS-activated GCN2-eIF2α-ATF4-xCT pathway. **Oncotarget** 7, 74132-74151. SCI
13. Hsu CC, Tseng LM, **Lee HC*** (2016) Role of mitochondrial dysfunction in cancer progression. **Exp. Biol. Med.** 241, 1281-1295. SCI
14. Chou SJ, Tseng WL, Chen CT, Lai YF, Chien CS, Chang YL, **Lee HC***, Wei YH*, Chiou SH* (2016) Impaired ROS scavenging system in human induced pluripotent stem cells generated from patients with MERRF syndrome. **Sci. Rep.** 6, 23661. SCI
15. Hsu CC, Wu LC, Hsia CY, Yin PH, Chi CW, Yeh TS, **Lee HC*** (2015) Energy metabolism determines the sensitivity of human hepatocellular carcinoma cells to mitochondrial inhibitors and biguanide drugs. **Oncol. Rep.** 34, 1620-1628. SCI
16. **Lee HC***, Huang KH, Yeh TS, Chi CW (2014) Somatic alterations in mitochondrial DNA and mitochondrial dysfunction in gastric cancer progression. **World J. Gastroenterol.** 20, 3950-3959. SCI
17. Huang KH, Hsu CC, Fang WL, Chi CW, Sung MT, Kao HL, Li AFY, Yin PH, Yang MH, **Lee HC*** (2014) SIRT3 expression as a biomarker for better prognosis in gastric cancer. **World J. Surg.** 38, 910-917. SCI
18. Hsu CC, **Lee HC***, Wei YH (2013) Mitochondrial DNA alterations and mitochondrial dysfunction in the progression of hepatocellular carcinoma. **World J. Gastroenterol.** 19, 8880-8886. SCI
19. Hsu CC, Wang CH, Wu LC, Hsia CY, Chi CW, Yin PH, Chang CJ, Sung MT, Wei YH, Lu SH, **Lee HC*** (2013) Mitochondrial dysfunction represses HIF-1α protein synthesis through AMPK activation in human hepatoma HepG2 cells. **Biochim. Biophys. Acta-Gen. Subj.** 1830, 4743-4751.SCI
20. Lee YC, Lee LM, Yang CH, Lin AMY, Huang YC, Hsu CC, Chen MS, Chi CW, Yin PH, Kuo CD, Liao JF*, **Lee HC*** (2013) Norcantharidin suppresses cell growth and migration with enhanced anticancer activity of gefitinib and cisplatin in human non-small cell lung cancer cells. **Oncol. Rep.** 29, 237-243. SCI
21. Hung WY, Huang KH, Wu CW, Chi CW, Kao HL, Li AFY, Yin PH, **Lee HC*** (2012) Mitochondrial dysfunction promotes cell migration via reactive oxygen species-enhanced β5-integrin expression in human gastric cancer SC-M1 cells. **Biochim. Biophys. Acta-Gen. Subj.** 1820, 1102-1110. SCI
22. **Lee HC***, Wei YH (2012) Mitochondria and aging. **Adv. Exp. Med. Biol.** 942,

311-327. SCI

23. Tseng LM, Yin PH, Yang CW, Tsai YF, Hsu CY, Chi CW, **Lee HC*** (2011) Somatic mutations of the mitochondrial genome in human breast cancers. **Genes Chromosomes Cancer** 50, 800-811. SCI
24. **Lee HC***, Chang CM, Chi CW (2010) Somatic mutations of mitochondrial DNA in aging and cancer progression. **Ageing Res. Rev.** 9S, S47-S58. SCI
25. Yin PH, Wu CC, Lin JC, Chi CW, Wei YH, **Lee HC*** (2010) Somatic mutations of mitochondrial genome in hepatocellular carcinoma. **Mitochondrion** 10, 174-182. SCI
26. Hung WY, Wu CW, Yin PH, Chang CJ, Li AFY, Chi CW, Wei YH, **Lee HC*** (2010) Somatic mutations in mitochondrial genome and their potential roles in the progression of human gastric cancer. **Biochim. Biophys. Acta-Gen. Subj.** 1800, 264-270. SCI
27. Wang PN*[#], **Lee HC**[#], Wang CH, Ping YH, Liu TY, Chi CW, Lin KN, Liu HC (2009) Heteroplasmy of mitochondrial D310 mononucleotide repeat region in the blood of patients with Alzheimer's disease. **J. Alzheimer's Dis.** 18, 345-353. SCI ([#]Equal contribution)
28. Chang CJ, Yin PH, Yang DM, Wang CH, Hung WY, Chi CW, Wei YH*, **Lee HC*** (2009) Mitochondrial dysfunction-induced amphiregulin upregulation mediates chemo-resistance and cell migration in HepG2 cells. **Cell. Mol. Life Sci.** 66, 1755-1765. SCI
29. Tseng LM, Yin PH, Tsai YF, Chi CW, Wu CW, Lee LM, **Lee HC*** (2009) Association between mitochondrial DNA 4,977 bp deletion and NAD(P)H: quinone oxidoreductase 1 (NQO1) C609T polymorphism in human breast tissues. **Oncol. Rep.** 21, 1169-1174. SCI
30. **Lee HC**, Wei YH* (2009) Mitochondrial DNA instability and metabolic shift in human cancer. **Int. J. Mol. Sci.** 10, 674-701. SCI
31. **Lee HC*** (2008) Mitochondria and cancer. **BioMedicine** 1, 158-172.
32. Wang SF, Yen JC, Yin PH, Chi CW, **Lee HC*** (2008) Involvement of oxidative stress activated JNK signaling in the methamphetamine induced cell death of human SH-SY5Y cells. **Toxicology** 246, 234-241. SCI
33. Hung WY, Lin JC, Lee LM, Wu CW, Tseng LM, Yin PH, Chi CW, **Lee HC*** (2008) Tandem duplication/triplication correlated with poly-cytosine stretch variation in human mitochondrial DNA D-loop region. **Mutagenesis** 23, 137-142. SCI
34. Lee HJ, Su Y, Lui WY, Chau GY, Yin PH, **Lee HC***, Chi CW* (2008) Peroxisome proliferator-activated receptor gamma coactivator-1 alpha upregulated E-cadherin expression in HepG2 cells. **FEBS Lett.** 528, 627-634. SCI
35. **Lee HC**, Wei YH* (2007) Oxidative Stress, mitochondrial DNA mutation, and apoptosis in aging. **Exp. Biol. Med.** 232, 592-606. SCI
36. Wu CW, Ping YH, Yen JC, Chang CY, Wang SF, Yeh CL, Chi CW, **Lee HC*** (2007) Enhanced oxidative stress and aberrant mitochondrial biogenesis in human neuroblastoma SH-SY5Y cells during methamphetamine induced apoptosis. **Toxicol. Applied Pharmacol.** 220, 243-251. SCI
37. **Lee HC***, Hsu LS, Yin PH, Lee LM, Chi CW (2007) Heteroplasmic mutation of mitochondrial DNA D-loop and 4,977-bp deletion in human cancer cells during mitochondrial DNA depletion. **Mitochondrion** 7, 157-163. SCI
38. Hung WY, **Lee HC***, Wei YH* (2006) Alterations of mitochondria in tumors and

recent advances in the development of mitochondria-targeting chemotherapy. **Chemistry** (THE CHINESE CHEM. SOC., TAIPEI), 64, 435-450.

39. Tseng LM, Yin PH, Chi CW, Hsu CY, Wu CW, Lee LM, Wei YH, **Lee HC*** (2006) Mitochondrial DNA mutations and mitochondrial DNA depletion in breast cancer. **Genes Chromosomes Cancer** 45, 629-638. SCI
40. Ping YH[#], **Lee HC**[#], Lee JY, Wu PH, Ho LK, Chi CW, Lu MF, Wang JJ* (2006) Anticancer effects of low-dose 10-hydroxycamptothecin in human colon cancer. **Oncol. Rep.** 15, 1273-1279. SCI ([#]Equal contribution)
41. Wu CW, Yin PH, Hung WY, Li AFY, Li SH, Chi CW, Wei YH, **Lee HC*** (2005) Mitochondrial DNA mutations and mitochondrial DNA depletion in gastric cancer. **Genes Chromosomes Cancer** 44, 19-28. SCI
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108 學年度 黃鈺涵，高煒翎
109 學年度 何郁潔，周品鈞
110 學年度 劉庭妤
111 學年度 程嘉瀅，王俐婷，李湘芸
112 學年度 江庭羽

博士班

94 學年度　洪文怡(2012/01 畢業)
98 學年度　許家齊(2015/07 畢業)
100 學年度 陳孟賢(2018/01 畢業)
101 學年度 王笙帆(2017/01 畢業)
103 學年度 陳梅君(2022/01 畢業)

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