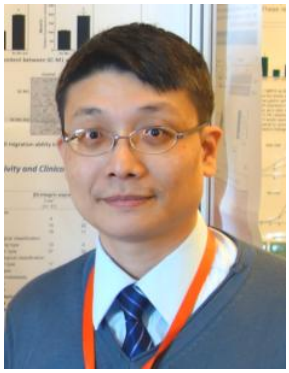
李新城 教授

Hsin-Chen Lee, Ph.D.



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<Education>

Ph.D., National Yang-Ming University, Taipei, Taiwan, ROC, 1996-2000
M.S., National Yang-Ming University, Taipei, Taiwan, ROC, 1992-1994
B.S., National Yang-Ming Medical College, Taipei, Taiwan, ROC, 1988-1992

<Working Experiences>

2021 ~ present
Professor, Institute of Pharmacology, National Yang Ming Chiao Tung University
2021 ~ present
Co-employed Professor, Department of Pharmacy, National Yang Ming Chiao Tung University
2017 ~ present
Director, Program office of National Core Facility for Biopharmaceuticals, Ministry of Science and Technology
2024 ~ present
Contract Research Fellow, Taipei Veterans General Hospital
2021 ~ 2023
Distinguished Professor, National Yang Ming Chiao Tung University
2011 ~ 2021
Professor, Institute of Pharmacology, National Yang-Ming University
2014 ~ 2020

Chairman, Institute of Pharmacology, National Yang-Ming University
2003 ~ 2011
Assistant Professor, Institute of Pharmacology, National Yang-Ming University
2001 ~ 2003
Assistant Professor, Institute of Biochemistry, Chung Shan Medical University
2000 ~ 2001
Postdoctoral Fellow, Institute of Biochemistry, National Yang-Ming University

< Membership>

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. Taiwan Society of Quality Assurance（台灣生醫品質保證協會）

< Project Proposal Reviewer >

1. The Czech Science Foundation, 2018, 2021
2. The National Science Center, Poland, 2020, 2022, 2023
3. The Einstein Foundation Berlin, 2024

< Editorial Board Member for Journal>

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 (2014~2024)
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, 2018~2024)
10. International Journal of Oncology (2018~2024)
11. Oncology Letters (2019~2024)
12. Mitochondrial Communications (2020~)
13. Biomolecules (Guest Editor of Special Issue, 2021)

< Reviewer for Journal>

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 // FEBS Open Bio // 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 Communications // 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 (Total 138 Journals)

<Research Interests>

1. Mitochondrial DNA mutations and energy metabolic reprogramming in human malignant progression
2. Mitochondrial stress response in human cancer cells
3. Mitochondria-to-nucleus communications in mammalian cells
4. Development of therapeutic strategy to targeting mitochondrial related pathways in human disease

<Representative Publications>

1. Wang SF, Ho YC, Chou CY, Chang YL, **Lee HC***, Tseng LM* (2024) Integrated stress response-upregulated mitochondrial SLC1A5var enhances glucose dependency in human breast cancer cells in vitro. **Int. J. Biochem. Cell Biol.** In press. SCI https://doi.org/10.1016/j.biocel.2024.106688
2. Wang SF*, Chang YL, Liu TY, Huang KH, Fang WL, Li AFY, Yeh TS, Hung GY, **Lee HC*** (2024) Mitochondrial dysfunction decreases cisplatin sensitivity in gastric cancer cells through upregulation of integrated stress response and mitokine GDF15. **FEBS J.** 291, 1131-1150. SCI
3. Wang SF, Tseng LM, **Lee HC*** (2023) Role of mitochondrial alterations in human cancer progression and cancer immunity. **J. Biomed. Sci.** 30, 61. SCI
4. 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
5. 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.
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. 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
13. 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
14. Hsu CC, Tseng LM, **Lee HC*** (2016) Role of mitochondrial dysfunction in cancer

progression. **Exp. Biol. Med.** 241, 1281-1295. SCI

15. 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
16. 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
17. **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
18. 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
19. 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
20. 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
21. 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
22. 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
23. **Lee HC***, Wei YH (2012) Mitochondria and aging. **Adv. Exp. Med. Biol.** 942, 311-327. SCI
24. 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
25. **Lee HC***, Chang CM, Chi CW (2010) Somatic mutations of mitochondrial DNA in aging and cancer progression. **Ageing Res. Rev.** 9S, S47-S58. SCI
26. 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
27. 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
28. 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)
29. 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
30. 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

31. Lee HC, Wei YH* (2009) Mitochondrial DNA instability and metabolic shift in human cancer. **Int. J. Mol. Sci.** 10, 674-701. SCI
32. Lee HC* (2008) Mitochondria and cancer. **BioMedicine** 1, 158-172.
33. 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
34. 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
35. 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
36. Lee HC, Wei YH* (2007) Oxidative Stress, mitochondrial DNA mutation, and apoptosis in aging. **Exp. Biol. Med.** 232, 592-606. SCI
37. 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
38. 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
39. 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.
40. 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
41. 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)
42. 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
43. Lee HC*, Yin PH, Lin JC, Wu CC, Chen CY, Wu CW, Chi CW, Tam TN, Wei YH (2005) Mitochondrial genome instability and mtDNA depletion in human cancers. **Ann. N.Y. Acad. Sci.** 1042, 109-122. SCI
44. Lee HC, Wei YH* (2005) Mitochondrial biogenesis and mitochondrial DNA maintenance of mammalian cells under oxidative stress. **Int. J. Biochem. Cell Biol.** 37, 822-834. SCI
45. Yin PH, Lee HC, Chau GY, Wu YT, Li SH, Lui WY, Wei YH, Liu TY, Chi CW* (2004) Alteration of the copy number and deletion of mitochondrial DNA in human hepatocellular carcinoma. **Br. J. Cancer** 90, 2390-2396. SCI
46. Lee HC, Li SH, Lin JC, Wu CC, Yeh DC, Wei YH* (2004) Somatic mutations in the D-loop and decrease in the copy number of mitochondrial DNA in human hepatocellular carcinoma. **Mutat. Res.** 547, 71-78. SCI
47. Wei YH*, Lee HC (2003) Mitochondrial DNA mutations and oxidative stress in mitochondrial diseases. **Adv. Clin. Chem.** 37, 83-128. SCI
48. Lee HC, Yin PH, Chi CW, Wei YH* (2002) Increase of mitochondrial mass in human fibroblasts under oxidative stress and during replicative cell senescence. **J. Biomed. Sci.** 9, 517-526. SCI

49. Wei YH*, **Lee HC** (2002) Oxidative stress, mitochondrial DNA mutation, and impairment of antioxidant enzymes in aging. **Exp. Biol. Med.** 227, 671-682. SCI
50. **Lee HC**, Wei YH* (2001) Mitochondrial alterations, cellular response to oxidative stress and defective degradation of proteins in aging. **Biogerontology** 2, 231-244. SCI
51. **Lee HC**, Yin PH, Yu TN, Chang YD, Hsu WC, Kao SY, Chi CW, Liu TY, Wei YH* (2001) Accumulation of mitochondrial DNA deletions in human oral tissues-Effects of betel quid chewing and oral cancer. **Mutat. Res.** 493, 67-74. SCI
52. **Lee HC**, Yin PH, Lu CY, Chi CW, Wei YH* (2000) Increase of mitochondria and mitochondrial DNA in response to oxidative stress in human cells. **Biochem. J.** 348, 425-432. SCI
53. **Lee HC**, Wei YH* (2000) Mitochondrial role in life and death of the cell. **J. Biomed. Sci.** 7, 2-15. SCI
54. **Lee HC**, Lim MLR, Lu CY, Liu VWS, Fahn HJ, Zhang C, Nagley P, Wei YH* (1999) Concurrent increase of oxidative DNA damage and lipid peroxidation together with mitochondrial DNA mutation in human lung tissues during aging-Smoking enhances oxidative stress on the aged tissues. **Arch. Biochem. Biophys.** 362, 309-316. SCI
55. **Lee HC**, Lu CY, Fahn HJ, Wei YH* (1998) Aging- and smoking-associated alteration in the relative content of mitochondrial DNA in human lung. **FEBS Lett.** 441, 292-296. SCI
56. **Lee HC**, Wei YH* (1997) The role of mitochondria in human aging. **J. Biomed. Sci.** 4, 319-326. SCI
57. **Lee HC**, Wei YH* (1997) Mutation and oxidative damage of mitochondrial DNA and defective turnover of mitochondria in human aging. **J. Formos. Med. Assoc.** 96, 770-778. SCI
58. **Lee HC**, Pang CY, Hsu HS, Wei YH* (1994) Ageing-associated tandem duplications in the D-loop of mitochondrial DNA of human muscle. **FEBS Lett.** 354, 79-83. SCI
59. **Lee HC**, Pang CY, Hsu HS, Wei YH* (1994) Differential accumulations of 4,977 bp deletion in mitochondrial DNA of various tissues in human ageing. Biochim. Biophys. Acta 1226, 37-43. SCI

<Other Publications>

1. Fann YN, Teo WH, **Lee HC**, Liao CC, Tsay YG, Huang TF, Lo JF* (2024) Regimen on Dnaja3 haploinsufficiency mediated sarcopenic obesity with imbalanced mitochondrial homeostasis and lipid metabolism. **J Cachexia Sarcopenia Muscle** 15, 2013-2029. SCI
2. Wang SF, Lin YS, Yeh WY, Chang YL, Chiang CE, Chen CH, Tseng LM, **Lee HC**, Cheng HM, Liu CY. (2023) The clinical benefits of antiresorptive agents in primary breast cancer patients receiving adjuvant endocrine therapy: A systematic review with pairwise and network meta-analysis. **J. Clin. Endocrinol. Metabol.** 108, e1433-e1447. SCI
3. Wang SF, Huang KW, Chou YC, **Lee HC**, Wu PK, Chen WM, Hung GY*, Chang YL*. (2023) Effect of co-medications and potential risk factors of high-dose methotrexate-mediated acute hepatotoxicity in patients with osteosarcoma. **Cancer Med.** 12, 12354–12364. SCI
4. Su VY, Ko SW, Chang YL, Chou YC, **Lee HC**, Yang KY, Chou KT, Hsu CC. (2022) Cardiovascular medication use and risk of acute exacerbation in patients with asthma-COPD overlap (CVACO study). **Allergy Asthma Immunol Res.** 14, 314-327. SCI
5. Yeh JT, Shulruf B, **Lee HC**, Huang PH, Kuo WH, Hwang TC, Chen CH* (2022) Faculty appointment and promotion in Taiwan's medical schools, a systematic analysis. **BMC Med Educ.** 22, 356. SCI

6. Liu CY, Huang TT, Chen JL, Chu PY, Lee CH, **Lee HC**, Lee YH, Chang YY, Yang SH, Jiang JK, Chen WS, Chao Y, Teng HW (2021) Significance of kynurenine 3-monooxygenase expression in colorectal cancer. **Front Oncol.** 11, 620361. SCI
7. Chen SP*, Chang YA, Chou CH, Juan CC, **Lee HC**, Chen LK, Wu PC, Wang YF, Fuh JL, Lirng JF, Ducros A, Huang HD, Wang SJ (2021) Circulating miRNAs associated with reversible cerebral vasoconstriction syndrome. **Ann. Neurol.** 89, 459-473. SCI
8. Chen JY, Wang JJ, **Lee HC**, Chi CW, Lee CH, Hsu YC* (2020) Combination of peroxisome proliferator-activated receptor gamma and retinoid X receptor agonists induces sodium/iodide symporter expression and inhibits cell growth of human thyroid cancer cells. **J. Chin. Med. Assoc.** 83, 923-930. SCI
9. Mohamed Yusoff AA*, Mohd Khair SZN, Abd Radzak SM, Idris Z, **Lee HC** (2020) Prevalence of mitochondrial DNA common deletion in patients with gliomas and meningiomas: A first report from a Malaysian study group. **J Chin Med Assoc.** 83, 838-844. SCI
10. Wang IH, Huang TT, Chen JL, Chu LW, Ping YH, Hsu KW, Huang KH, Fang WL, **Lee HC**, Chen CF, Liao CC, Hsieh RH, Yeh TS* (2020) Mevalonate pathway enzyme HMGCS1 contributes to gastric cancer progression. **Cancers** 12, 1088. SCI
11. Huang TT, Tseng LM, Chen JL, Chu PY, Lee CH, Huang CT, Wang WL, Lau KY, Tseng MF, Chang YY, Chiang TY, Ueng YF, **Lee HC**, Dai MS, Liu CY* (2020) Kynurenine 3-monooxygenase upregulates pluripotent genes through β-catenin and promotes triple-negative breast cancer progression. **EBioMedicine** 54, 102717. SCI
12. Yeh YT, Chen JY, Kuo PC, Wang TH, **Lee HC**, Chi CW, Lee CH, Shyr YM, Wang SJ*, Chen WM* (2020) Printing a three-dimensional patient-specific safety device for reducing the potential risk of mental nerve injury during transoral thyroidectomy. **World J. Surg.** 44, 371–377. SCI
13. Tsai PH, Chien Y, Wang ML, Hsu CH, Laurent B, Chou SJ, Chang WC, Chien CS, Li HY, **Lee HC**, Huo TI, Hung JH, Chen CH, Chiou SH* (2019) Ash2l interacts with Oct4-stemness circuitry to promote super-enhancer-driven pluripotency network. **Nucleic Acids Res.** 47, 10115-10133. SCI
14. Su VYF, Perng DW, Chou TC, Chou YC*, Chang YL*, Hsu CC, Chou CL, **Lee HC**, Chen TJ, Hu PW (2018) Mucolytic agents and statins use is associated with a lower risk of acute exacerbations in patients with bronchiectasis-COPD overlap. **J. Clin. Med.** 7, 517. SCI
15. Hua K, Chen YT, Chen CF, Tang YS, Huang TT, Lin YC, Yeh TS, Huang KH, **Lee HC**, Hsu MT, Chi CW, Wu CW, Lin CH, Ping YH* (2018) MicroRNA-23a/27a/24-2 cluster promotes gastric cancer cell proliferation synergistically. **Oncol. Lett.** 16, 2319-2325. SCI
16. Chou SJ, Ko YL, Yang YH, Chen CT, Wu YT, **Lee HC**, Wei YH*, Chiou SH* (2018) Generation of two isogenic human induced pluripotent stem cell lines from a 15 year-old female patient with MERRF syndrome and A8344G mutation of mitochondrial DNA. **Stem Cell Res.** 30, 201-205. SCI
17. Huang KH, Sung IC, Fang WL, Chi CW, Yeh TS, **Lee HC**, Yin PH, Li AFY, Wu CW, Shyr YM, Yang MH* (2018) Correlation between HGF/c-Met and Notch1 signaling pathways in human gastric cancer cells. **Oncol. Rep.** 40, 294-302. SCI
18. Wu YR, Wang AG, Chen YT, Yarmishyn AA, Buddhakosai W, Yang TC, Hwang DK, Yang YP, Shen CN, **Lee HC**, Chiou SH, Peng CH, Chen SJ* (2018) Bioactivity and gene expression profiles of hiPSC-generated retinal ganglion cells in MT-ND4 mutated Leber's hereditary optic neuropathy. **Exp. Cell Res.** 363, 299-309. SCI
19. Cieślar-Pobuda A*, Yue J, **Lee HC**, Skonieczna M, Wei YH. (2017) ROS and oxidative stress in stem cells. **Oxid. Med. Cell Longev.** 2017, 5047168. SCI
20. Lin YC, Chang YT, Campbell M, Lin TP, Pan CC, **Lee HC**, Shih JC*, Chang PC* (2017)

MAOA- a novel decision maker of apoptosis and autophagy in hormone refractory neuroendocrine prostate cancer cells. **Sci. Rep.** 7, 46338. SCI

21. Chang YT, Lin TP, Campbell M, Pan CC, Lee SH, **Lee HC**, Yang MH, Kung HJ, Chang PC* (2017) REST is a crucial regulator for acquiring EMT-like and stemness phenotypes in hormone-refractory prostate cancer. **Sci. Rep.** 7, 42759. SCI
22. Chen JL, Ping YH, Tseng MJ, Chang YI, **Lee HC**, Hsieh RH, Yeh TS* (2017) Notch1-promoted TRPA1 expression in erythroleukemic cells suppresses erythroid but enhances megakaryocyte differentiation. **Sci. Rep.** 7, 42883. SCI
23. Hsu HT, Sung MT, Lee CC, Kuo YJ, Chi CW, **Lee HC**, Hsia CY* (2016) Peroxisome proliferator-activated receptor γ expression is inversely associated with macroscopic vascular invasion in human hepatocellular carcinoma. **Int. J. Mol. Sci.** 17, 1226. SCI
24. Chen HC, Hsu HT, Weng JW, Chang YF, Hsia CY, **Lee HC**, Chi CW* (2016) Combined effect of honokiol and rosiglitazone on cell growth inhibition through enhanced G0/G1 phase arrest in hepatoma cells. **J. Chin. Med. Assoc.** 79, 415-421. SCI
25. Hsu KW, Fang WL, Huang KH, Huang TT, **Lee HC**, Hsieh RH, Chi CW, Yeh TS* (2016) Notch1 pathway-mediated microRNA-151-5p promotes gastric cancer progression. **Oncotarget** 7, 38036-38051. SCI
26. Tsai PH, Chien Y, Chuang JH, Chou SJ, Chien CH, Lai YH, Li HY, Ko YL, Wang CY, Liu YY, **Lee HC**, Yang CH, Tsai TF, Lee YY, Chiou SH* (2015) Dysregulation of mitochondrial functions and osteogenic differentiation in cisd2-deficient murine induced pluripotent stem cells. **Stem Cells Dev**. 24, 2561-2576. SCI
27. Li CT, Tu PC, Hsieh JC, **Lee HC**, Bai YM, Tsai JF, Huang HH, Wang SJ, Su TP* (2015) Functional dysconnection in the prefrontal-amygdala circuitry in unaffected siblings of bipolar I patients. **Bipolar Disord.** 17, 626-635. SCI
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