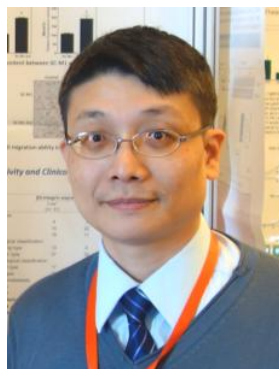


# 李新城 教授

Hsin-Chen Lee, Ph.D.



Professor

Institute of Pharmacology,

College of Medicine,

National Yang Ming Chiao Tung University (NYCU)

(National Yang-Ming University, NYMU)

R512, 5F, Shouren Building, No. 155, Sec. 2, Linong St., Taipei, 11221  
Taiwan (ROC)

TEL: 02-2826-7327

E-mail: [hlee2@nycu.edu.tw](mailto:hlee2@nycu.edu.tw); ([hlee2@ym.edu.tw](mailto:hlee2@ym.edu.tw))

## <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

### **< Top 2% Scientists Worldwide >**

2021 Oct, listed in “Single-year” Top 2% Scientists Worldwide 2020 by Stanford University.

2022 Oct, listed in “Single-year” & “Career” Top 2% Scientists Worldwide 2021 by Stanford University.

2023 Oct, listed in “Single-year” & “Career” Top 2% Scientists Worldwide 2022 by Stanford University.

2024 Sep, listed in “Single-year” & “Career” Top 2% Scientists Worldwide 2023 by Stanford University.

2025 Sep, listed in “Single-year” & “Career” Top 2% Scientists Worldwide 2024 by Stanford 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
4. Worldwide Cancer Research, 2025

### **< 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)
14. Journal of the Chinese Medical Association (Editorial Board Member, 2024-2026)

## < 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 // Cell Reports // 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 Biology // 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 140 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.** 177, 106688. SCI
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-eIF2 $\alpha$ -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-eIF2 $\alpha$ -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-1 $\alpha$  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  $\beta$ 5-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<sup>#</sup>, [Lee HC<sup>#</sup>](#), 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 (<sup>#</sup>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<sup>#</sup>, [Lee HC<sup>#</sup>](#), 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 (<sup>#</sup>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. Wang SF, Chou CY, Chao YW, Chan TK, Yeh WY, Chiang CE, Chen CH, [Lee HC](#), Tseng

- LM, Chang YL, Cheng HM\*, Liu CY\* (2025) Impact of PIK3CA mutations on the clinical benefits of CDK 4/6 inhibitors in HR+/HER2- advanced breast cancer: An updated pairwise and network meta-analysis. **J. Cancer.** 16, 3065-3079. SCI
2. 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
3. Wang SF, Lin YS, Yeh WY, Chang YL, Chiang CE, Chen CH, Tseng LM, [Lee HC](#), Liu CY, Cheng HM\*. (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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. 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  $\beta$ -catenin and promotes triple-negative breast cancer progression. **EBioMedicine** 54, 102717. SCI
13. 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
14. 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



15. 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
16. 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
17. 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
18. 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
19. 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
20. Cieřlar-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
21. 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
22. 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
23. 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
24. Hsu HT, Sung MT, Lee CC, Kuo YJ, Chi CW, [Lee HC](#), Hsia CY\* (2016) Peroxisome proliferator-activated receptor  $\gamma$  expression is inversely associated with macroscopic vascular invasion in human hepatocellular carcinoma. **Int. J. Mol. Sci.** 17, 1226. SCI
25. 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
26. 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
27. 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
28. 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
29. Huang TT, Ping YH, Wang AM, Ke CC, Fang WL, Huang KH, [Lee HC](#), Chi CW, Yeh TS\* (2015) The reciprocal regulation loop of Notch2 pathway and miR-23b in controlling gastric carcinogenesis. **Oncotarget** 6, 18012-18026. SCI
30. Sung MT, Hsu HT, Lee CC, [Lee HC](#), Kuo YJ, Hua K, Hsia CY\*, Chi CW\* (2015) Krüppel-like factor 4 modulates migration and invasion of hepatoma cells by repressing

- TIMP-1 and TIMP-2. **Oncol. Rep.** 34, 439-446. SCI
31. Li CT, Bai YM, Hsieh JC, [Lee HC](#), Yang BH, Chen MH, Lin WC, Tsai CF, Tu PC, Wang SJ, Su TP\* (2015) Peripheral and central glucose utilizations modulated by mitochondrial DNA 10398A in bipolar disorder. **Psychoneuroendocrinology** 55, 72-80. SCI
  32. Huang SW, Kao JK, Wu CY, Wang ST, [Lee HC](#), Liang SM, Chen YJ, Shieh JJ\* (2014) Targeting aerobic glycolysis and HIF-1 alpha expression enhance imiquimod-induced apoptosis in cancer cells. **Oncotarget** 5, 1363-1381. SCI
  33. Hsu KW, Wang AM, Ping YH, Huang KH, Huang TT, [Lee HC](#), Lo SS, Chi CW, Yeh TS\* (2014) Down-regulation of tumor suppressor MBP-1 by microRNA-363 in gastric carcinogenesis. **Carcinogenesis** 35, 208-217. SCI
  34. Lan YC, Chang CL, Sung MT, Yin PH, Hsu CC, Wang KC, [Lee HC](#), Tseng LM\*, Chi CW\* (2013) Zoledronic acid-induced cytotoxicity through endoplasmic reticulum stress triggered REDD1-mTOR signaling pathway in breast cancer cells. **Anticancer Res.** 33, 3807-3814. SCI
  35. Wang SF, Chou YC, Mazumder N, Kao FJ, Nagy LD, Guengerich P, Huang C, [Lee HC](#), Lai PS, Ueng YF (2013) 7-Ketocholesterol induces P-glycoprotein through PI3K/mTOR signaling in hepatoma cells. **Biochem. Pharmacol.** 86, 548-560. SCI
  36. Lin HY, Lai RH, Lin ST, Lin RC, Wang MJ, Lin CC, [Lee HC](#), Wang FF\*, Chen JY\* (2013) Suppressor of cytokine signaling 6 (SOCS6) promotes mitochondrial fission via regulating DRP1 translocation. **Cell Death Differ.** 20, 139-153. SCI
  37. Wu YT, [Lee HC](#), Liao CC, Wei YH\* (2013) Regulation of mitochondrial F<sub>0</sub>F<sub>1</sub>ATPase activity by Sirt3-catalyzed deacetylation and its deficiency in human cells harboring 4977 bp deletion of mitochondrial DNA. **Biochim. Biophys. Acta-Mol. Basis Dis.** 1832, 216-227. SCI
  38. Tsai KL, Huang YH, Kao CL, Yang DM, [Lee HC](#), Chou HY, Chen YC, Chiou GY, Chen LH, Yang YP, Chiu TH, Tsai CS, Ou HC, Chiou SH\* (2012) A novel mechanism of coenzyme Q10 protects against human endothelial cells from oxidative stress-induced injury by modulating NO-related pathways. **J. Nutr. Biochem.** 23, 458-468. SCI
  39. Yang CW\*, Chang CL, [Lee HC](#), Chi CW, Pan JP, Yang WC (2012) Curcumin induces the apoptosis of human monocytic leukemia THP-1 cells via the activation of JNK/ERK Pathways. **BMC Complement. Altern. Med.** 12, 22. SCI
  40. Chang CF, Huang HJ, [Lee HC](#), Hung KC, Wu RT, Lin AM. (2012) Melatonin attenuates kainic acid-induced neurotoxicity in mouse hippocampus via inhibition of autophagy and  $\alpha$ -synuclein aggregation. **J. Pineal Res.** 52, 312-321. SCI
  41. Chen LH, Chu PM, Lee YJ, Tu PH, Chi CW, [Lee HC\\*](#), Chiou SH\* (2012) Targeting protective autophagy exacerbates UV-triggered apoptotic cell death. **Int. J. Mol. Sci.** 13, 1209-1224. SCI
  42. Huang PI, Chen YC, Chen LH, Juan CC, Ku HH, Wang ST, Chiou SH, Chiou GY, Chi CW, Hsu CC, [Lee HC](#), Chen LK, Kao CL\* (2011) PGC-1 $\alpha$  mediates differentiation of mesenchymal stem cells to brown adipose cells. **J. Atheroscler. Thromb.** 18, 966-80. SCI
  43. Tsai MS, Huang CH, Tsai CY, Chen HW, [Lee HC](#), Cheng HJ, Hsu CY, Wang TD, Chang WT, Chen WJ\* (2011) Ascorbic acid mitigates the myocardial injury after cardiac arrest and electrical shock. **Intensive Care Med.** 37, 2033-2040. SCI
  44. Huang PI, Chou YC, Chang YL, Chen KH, Song WS, Peng CH, Chien Y, Chang CH, Lee SD, Chen YJ, Kuo CH, Hsu CC, [Lee HC\\*](#), Yung MC\* (2011) Enhanced differentiation of three gene-reprogrammed induced pluripotent stem cells into adipocytes via adenoviral-mediated PGC-1 $\alpha$ . **Int. J. Mol. Sci.** 12, 7554-7568. SCI
  45. Chen KD, Chang PT, Ping YH, [Lee HC](#), Yeh CW, Wang PN\* (2011) Gene expression profiling of peripheral blood leukocytes identifies and validates ABCB1 as a novel

- biomarker for Alzheimer's disease. **Neurobiol. Dis.** 43, 698-705. SCI
46. Chen LH, Loong CC, Su TL, Lee YJ, Chu PM, Tsai ML, Tsai PH, Tu PH, Chi CW, [Lee HC\\*](#), Chiou SH\* (2011) Autophagy inhibition enhances apoptosis triggered by BO-1051; an N-mustard derivative; and involves the ATM signaling pathway. **Biochem. Pharmacol.** 81, 594-605. SCI
  47. Zheng YW, Lee LY, Chao PL, [Lee HC](#), Wu RT, Lin AMY\* (2010) Role of autophagy in protection afforded by hypoxic preconditioning against MPP<sup>+</sup>-induced neurotoxicity in SH-SY5Y cells. **Free Radic. Biol. Med.** 49, 839-846. SCI
  48. Hsu CW, Yin PH, [Lee HC](#), Chi CW, Tseng LM\* (2010) Mitochondrial DNA content as a potential marker to predict response to anthracycline in breast cancer patients. **Breast J.** 16, 264-270. SCI
  49. Weng SW, Lin TK, Wang PW, Chen IY, [Lee HC](#), Chen SD, Chuang YC, Liou CW\* (2010) Gly482Ser polymorphism in the peroxisome proliferator-activated receptor gamma coactivator-1alpha gene is associated with oxidative stress and abdominal obesity. **Metabolism** 59, 581-586. SCI
  50. Lee HJ, Su Y, Yin PH, [Lee HC](#), Chi CW\* (2009) PPAR $\gamma$ /PGC-1 $\alpha$  pathway in E-cadherin expression and motility of HepG2 cells. **Anticancer Res.** 29, 5057-5063. SCI
  51. Wei YH\*, Wu SB, Ma YS, [Lee HC](#) (2009) Respiratory function decline and DNA mutation in mitochondria, oxidative stress and altered gene expression in aging. **Chang Gung Med. J.** 32, 113-132.
  52. Weng SW, Lin TK, Liou CW, Chen SD, Wei YH, [Lee HC](#), Chen IY, Hsieh CJ, Wang PW\* (2009) Peripheral blood mitochondrial DNA content and dysregulation of glucose metabolism. **Diabetes Res. Clin. Pract.** 83, 94-99. SCI
  53. Tam TN\*, Lee CF, [Lee HC](#), Lin HC, Yeh C, Tung TH (2008) Mitochondrial DNA 4977 bp deletion in colorectal cancer. **Gastroenterol. J. Taiwan** 25, 343-355.
  54. Hsu YC, [Lee HC](#), Ping YH, Liu TY, Lui WY, Chi CW\* (2007) Mitochondria are an essential mediator of nitric oxide/cyclic guanosine 3',5'-monophosphate blocking of glucose depletion induced cytotoxicity in human HepG2 cells. **Mol. Cancer Res.** 5, 923-932. SCI
  55. Chen CY, Ping YH, [Lee HC](#), Chen KH, Lee YM, Chan YC, Lien TC, Jap TS, Lin CH, Kao LS, Chen YMA\* (2007) Open reading frame 8a of the human severe acute respiratory syndrome coronavirus not only promotes viral replication but also induces apoptosis. **J. Infectious Dis.** 196, 405-415. SCI
  56. Hsu LS, [Lee HC](#), Chau GY, Yin PH, Chi CW, Lui WY\* (2006) Aberrant methylation of EDNRB and p16 genes in hepatocellular carcinoma (HCC) in Taiwan. **Oncol. Rep.** 15, 507-511. SCI
  57. Chang MC, Hung SC, Chen WY, Chen TL, Lee CF, [Lee HC](#), Wang KL, Chiou CC, Wei YH (2005) Accumulation of mitochondrial DNA with 4977-bp deletion in knee cartilage - an association with idiopathic osteoarthritis. **Osteoarthritis Cartilage** 13, 1004-1011. SCI
  58. Yang JH, [Lee HC](#), Chung JG, Wei YH\* (2004) Mitochondrial DNA mutations in light-associated skin tumors. **Anticancer Res.** 24, 1753-1758. SCI
  59. Yin PH, [Lee HC](#), Chau GY, Liu TY, Liu HC, Lui WY, Chi CW\* (2004) Polymorphisms of estrogen-metabolizing genes and risk of hepatocellular carcinoma in Taiwan females. **Cancer Lett.** 212, 195-201. SCI
  60. Lu CY, Wang EK, [Lee HC](#), Tsay HJ, Wei YH\* (2003) Increased expression of manganese-superoxide dismutase in fibroblasts of patients with CPEO syndrome. **Mol. Genet. Metabol.** 80, 321-329. SCI
  61. Chu CC, Huang CC, Kao LY, Kuo HC, Yu TN, Tso DJ, [Lee HC](#), Wei YH (2003) Clinical phenotype and the G11778A mutation of mitochondrial DNA in patients with Leber's hereditary optic neuropathy in Taiwan. **Neuro-ophthalmology** 26, 207-216. SCI

62. Lee YC, Wei YH, Lirng JF, [Lee HC](#), Tso DJ, Lin KP, Wu ZA, Liu HC (2002) Wernicke's encephalopathy in a patient with multiple symmetrical lipomatosis and the A8344G mutation of mitochondrial DNA. **Eur. Neurol.** 47, 126-128. SCI
63. Kuo HC, Huang CC, Chu CC, Kao LY, [Lee HC](#), Pang CY, Wei YH (2001) Coenzyme Q10 treatment in Leber's hereditary optic neuropathy. **J. Neuro-ophthalmol.** 25, 199-207. SCI
64. Wei YH\*, Ma YS, [Lee HC](#), Lee CF, Lu CY (2001) Mitochondrial theory of aging matures--roles of mtDNA mutation and oxidative stress in human aging. **Chin. Med. J. (Taipei)** 64, 259-270.
65. Wei YH\*, Lee CF, [Lee HC](#), Ma YS, Wang CW, Lu CY, Pang CY (2001) Increase of mitochondrial mass and mitochondrial genome in association with enhanced oxidative stress in human cells harboring 4,977 bp-deleted mitochondrial DNA. **Ann. N.Y. Acad. Sci.** 928, 97-112. SCI
66. Wei YH\*, Lu CY, Wei CY, Ma YS, [Lee HC](#) (2001) Oxidative stress in human aging and mitochondrial disease-Consequences of defective mitochondrial respiration and impaired antioxidant enzyme system. **Chinese J. Physiol.** 44, 1-11. SCI
67. Lien LM, [Lee HC](#), Wang KL, Chiu CC, Chiu HC, Wei YH (2001) Involvement of nervous system in maternally inherited diabetes and deafness (MIDD) with the A3243G mutation of mitochondrial DNA. **Acta Neurol. Scand.** 103, 159-165. SCI
68. Liou CW, Huang CC, Tsai JL, Liu JY, Pang CY, [Lee HC](#), Wang EK, Wei YH (2000) Absence of maternal A3243G mtDNA mutation and reversible hyperglycemia in a patient with MELAS syndrome. **Acta Neurol. Scand.** 101, 65-69. SCI
69. Thajeb P, [Lee HC](#), Pang CY, Jeng CM, Huang SF, Wei YH (2000) Phenotypic heterogeneity in a Chinese family with mitochondrial disease and A3243G mutation of mitochondrial DNA. **Chin. Med. J. (Taipei)** 63, 71-76.
70. Sung YJ, Juan CC, [Lee HC](#), Yin PH, Chi CW, Ku HH, Lee AFY, Wei YH, Tsay HJ (1999) Reduced oxidative stress in transplanted N1S1 hepatoma with markedly declined activities of antioxidant enzymes. **Oncol. Rep.** 6, 1313-1319. SCI
71. Yen MY, [Lee HC](#), Wang AG, Chang WL, Liu JH, Wei YH (1999) Exclusive homoplasmic 11778 mutation in mitochondrial DNA of Chinese patients with Leber's hereditary optic neuropathy. **Jpn. J. Ophthalmol.** 43, 196-200. SCI
72. Lu CY, [Lee HC](#), Fahn HJ, Wei YH\* (1999) Oxidative damage elicited by imbalance of free radical scavenging enzymes and the relationship with large-scale mtDNA deletions during human aging. **Mutat. Res.** 423, 11-21. SCI
73. Wei YH\*, [Lee HC](#), Pang CY, Lu CY, Ma YS (1998) Oxidative damage and mutation to mitochondrial DNA and age-dependent decline of mitochondrial respiratory function. **Ann. N. Y. Acad. Sci.** 854, 155-170. SCI
74. Wei YH\*, Pang CY, [Lee HC](#), Lu CY (1998) Roles of mitochondrial DNA mutations and oxidative damage in human aging. **Cur. Sci.** 74, 887-893. SCI
75. Liu VWS, Zhang C, Pang CY, [Lee HC](#), Lu CY, Wei YH, Nagley P\* (1998) Independent occurrence of somatic mutations in mitochondrial DNA of human skin from subjects of various ages. **Human Mutat.** 11, 191-196. SCI
76. Wei YH\*, [Lee HC](#), Wang EK, Pang CY (1997) Decreased cellular respiratory function and mitochondrial DNA mutations in the human heart associated with aging and disease. **Asia Pacific Heart J.** 6, 197-204.
77. Wei YH\*, Pang CY, You BJ, [Lee HC](#) (1996) Tandem duplications and large-scale deletions of mitochondrial DNA are early molecular events of human aging process. **Ann. N. Y. Acad. Sci.** 786, 82-101. SCI
78. Wei YH\*, Kao SH, [Lee HC](#) (1996) Simultaneous increase of mitochondrial DNA deletions and lipid peroxidation in human aging. **Ann. N. Y. Acad. Sci.** 786, 24-43. SCI



79. Li JY, Kong KW, Chang MH, Cheung SC, [Lee HC](#), Pang CY, Wei YH (1996) MELAS syndrome associated with a tandem duplication in the D-loop of mitochondrial DNA. **Acta Neurol. Scand.** 93, 450-455. SCI
80. Yen MY, [Lee HC](#), Liu JH, Wei YH (1996) Compensatory elevation of complex II activity in Leber's hereditary optic neuropathy. **Br. J. Ophthalmol.** 80, 78-81. SCI
81. Yang CY, Lam HC, [Lee HC](#), Wei YH, Han TM, Tsai JL, Chuang YH, Lee JK (1995) MELAS syndrome associated with diabetes mellitus and hyperthyroidism: a case report from Taiwan. **Clin. Endocrinol.** 43, 235-239. SCI
82. Liu CS, Chang YC, Chen DF, Huang CC, Pang CY, [Lee HC](#), Cheng CC, Horng CJ, Wei YH (1995) Type IV hyperlipoproteinemia and moderate instability of CAG triplet expansion in the androgen-receptor gene. Lipid, sex hormone and molecular study in a Chinese family with Kennedy-Alter-Sung disease. **Acta Neurol. Scand.** 92, 398-404. SCI
83. Hsu CC, Chuang YH, Tsai JL, Jong HJ, Shen YY, Huang HL, Chen HL, [Lee HC](#), Pang CY, Wei YH (1995) CPEO and carnitine deficiency overlapping in MELAS syndrome. **Acta Neurol. Scand.** 92, 252-255. SCI
84. Huang CC, Fang W, Chen RS, Lee CC, Pang CY, [Lee HC](#), Shih KD, Wei YH (1995) Mitochondrial encephalomyopathies: CT and MRI findings and correlations with clinical features. **Eur. Neurol.** 35, 199-205. SCI
85. Chiang LM, Jong YJ, Huang SC, Tsai JL, Pang CY, [Lee HC](#), Wei YH (1995) Heteroplasmic mitochondrial DNA mutation in a patient with mitochondrial myopathy, encephalopathy, lactic acidosis and stroke-like episodes. **J. Formos. Med. Assoc.** 94, 42-47. SCI
86. Yang JH, [Lee HC](#), Wei YH\* (1995) Photoageing-associated mitochondrial DNA length mutations in human skin. **Arch. Dermatol. Res.** 287, 641-648. SCI
87. Tsai JL, Lee JF, [Lee HC](#), Lee CH, Huang JY, Wei YH\* (1994) Effect of zinc supplement in ethanol diet on rat liver mitochondrial respiration and oxidative phosphorylation. **J. Chin. Biochem. Soc.** 23, 43-52.
88. Wu TP, Tsai JG, Chan PH, [Lee HC](#), Wei YH (1994) Mitochondrial respiratory function in multiple symmetrical lipomatosis: report of two cases. **J. Formos. Med. Assoc.** 93, 513-518. SCI
89. Liou CW, Huang CC, Chee ECY, Jong YJ, Tsai JL, Pang CY, [Lee HC](#), Wei YH (1994) MELAS syndrome: correlation between clinical features and molecular genetic analysis. **Acta Neurol. Scand.** 90, 354-359. SCI
90. Huang CC, Chen RS, Chen CM, Wang HS, Lee CC, Pang CY, Hsu HS, [Lee HC](#), Wei YH (1994) MELAS syndrome with mitochondrial tRNA<sup>Leu(UUR)</sup> gene mutation in a Chinese family. **J. Neurol. Neurosurg. Psychiatry** 57, 586-589. SCI
91. Pang CY, [Lee HC](#), Yang JH, Wei YH\* (1994) Human skin mitochondrial DNA deletions associated with light exposure. **Arch. Biochem. Biophys.** 312, 534-538. SCI
92. Yang JH, [Lee HC](#), Lin KJ, Wei YH\* (1994) A specific 4,977 bp deletion of mitochondrial DNA in human ageing skin. **Arch. Dermatol. Res.** 286, 386-390. SCI
93. Yen TC, King KL, [Lee HC](#), Yeh SH, Wei YH\* (1994) Age-dependent increase of mitochondrial DNA deletions together with lipid peroxides and superoxide dismutase in human liver mitochondria. **Free Radic. Biol. Med.** 16, 207-214. SCI
94. Yen TC, Hsu JH, [Lee HC](#), Lee JF, Wei YH\* (1992) Specific restriction fragment length polymorphism in liver mitochondrial DNA. **Chin. Med. J.** 50, 177-183.
95. Yen TC, [Lee HC](#), Liu YC, Wei YH\* (1991) Effect of body irradiation on rat liver mitochondrial DNA and respiratory functions. **Nucl. Sci. J.** 28, 105-116.

\*Corresponding author