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**Research Interests:** Molecular Biology of Cancer Biomarker, Molecular Genetics and Genomics, Complementary and Alternative Medicine

**Academic Distinctions:**

Distinguished Tutor, Graduate Institution of Integrated Medicine, College of Chinese Medicine, CMU (2013)

Distinguished Tutor, Graduate Institution of Integrated Medicine, College of Chinese Medicine, CMU (2014)

**Appointments:**

2008-2009: Postdoctoral fellow: Institute of Biochemistry and Molecular Biology, National Taiwan University

2009-2010: Instructor: College of Chinese Medicine, China Medical University

2010- present: Research Fellow: Department of Medical Genetics and Medical Research, CMUH

2011-2015: Assistant Professor: Graduate Institute of Integrated Medicine, College of Chinese Medicine, CMU

2015-present: Associate Professor: Graduate Institute of Integrated Medicine, College of Chinese Medicine, CMU

**Research Interests:**

Alternation in inflammatory regulation may result in cellular damage and microenvironment imbalance, and the interaction between microenvironment and damaged cells will lead the damaged cells to proliferate, invade, and subsequently induce tumorigenesis. Our laboratory has been particularly interested in molecular mechanisms for functional biomarkers in inflammatory diseases and cancers. Based on the results, we are investigating selected anti-cancer Chinese herbal medicines which aim to develop new complementary medicine for cancers.

**Representative Publications:**

[Aqueous extract of \*Polygonum bistorta\* modulates proteostasis by ROS-induced ER stress in human hepatoma cells.](#)

Liu YH, Weng YP, Lin HY, Tang SW, Chen CJ, Liang CJ, Ku CY, Lin JY\*. **Sci Rep.** 2017 Jan 30;7:41437.

[Liver fatty acid-binding protein \(L-FABP\) promotes cellular angiogenesis and migration in hepatocellular carcinoma.](#)

Ku CY, Liu YH, Lin HY, Lu SC, Lin JY\*. **Oncotarget.** 2016 Apr 5;7(14):18229-46.

[Single nucleotide polymorphisms at the PRR3, ABCF1, and GNL1 genes in the HLA class I region are associated with Graves' ophthalmopathy in a gender-dependent manner.](#) Liu YH, Chen YJ, Wu HH, Wang TY, Tsai FJ\*.

**Ophthalmology.** 2014 Oct;121(10):2033-9.

[Dual effect of a polymorphism in the macrophage migration inhibitory factor gene is associated with new-onset Graves disease in a Taiwanese Chinese population.](#) Liu YH, Chen CC, Yang CM, Chen YJ, Tsai FJ\*. **PLoS One.** 2014 Mar 25;9(3):e92849.

## CMU Faculty Profile

### DER-YEN LEE

Assistant Professor, Graduate Institute of Integrated Medicine, College of Chinese Medicine

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**Research Interests:** Hydrogen sulfide signaling, analytical biochemistry and metabolomics

#### Appointments:

2009-2014: Postdoctoral fellow: Institute of Biochemical Sciences, National Taiwan University

2014-2016: Assistant Professor: Department of Applied Chemistry, National Chiayi University

2016- present: Associate Professor: Graduate Institute of Integrated Medicine, CMU

#### Research Interests:

My personal interest is to develop applied methods for biochemical studies in biological and biomedical fields based on mass spectra analyses and biochemical approaches. Besides, my current subject is trying to understand the signaling properties of hydrogen sulfide on redox regulation and energy balance.

Besides, the main task of our lab is conducting metabolomic study based on LC-MS analysis for coordinated issues requested from CMU and CMU hospital. The lab are promoted to assist in clinical, fundamental, and medical research to discover novel biomarkers for diagnosis and therapy.

#### Representative Publications:

[Enrichment of Metabolite-Binding Proteins by Affinity Elution in Tandem Hydrophobic Interaction Chromatography \(AETHIC\) Reveals RKIP Regulating ERK Signaling in an ATP-Dependent Manner.](#) Wei-Chieh Huang, **Der-Yen Lee**, and Geen-Dong Chang\*. **Journal of Proteome Research** 2016 Sep 15(10):3574-3584.

[Six Hours after Infection, the Metabolic Changes Induced by WSSV Neutralize the Host's Oxidative Stress Defenses.](#) I-Tung Chen, **Der-Yen Lee**, Yun-Tzu Huang, Guang-Hsiung Kou, Han-Ching Wang, Geen-Dong Chang, Chu-Fang Lo\*. **Scientific Reports** 2016 Jun 6:27732.

[Quantitative Proteomics Analysis Reveals the Min System of Escherichia coli Modulates Reversible Protein Association with the Inner Membrane.](#) Hsiao-Lin Lee, I-Chen Chiang, Suh-Yuen Liang, **Der-Yen Lee**, Geen-Dong Chang, Kwan-Yu Wang, Shu-Yu Lin, and Yu-Ling Shih. **Molecular & Cellular Proteomics** 2016 Feb 15(5): 1572-1583.

[Quantitative liquid chromatography–electrospray ionization–mass spectrometry analysis of aminecontaining metabolites derivatized with cyanuric chloride and methylamine isotopologues.](#) **Der-Yen Lee**, Geen-Dong Chang. **Journal of chromatography A** 2015 Feb 1388, 60-68.

[White Spot Syndrome Virus Protein Kinase 1 Defeats the Host Cell's Iron-Withholding Defense Mechanism by Interacting with Host Ferritin.](#) Shin-Jen Lin, **Der-Yen Lee**, Hao-Ching Wang, Shih-Ting Kang, Pung-Pung Hwang, Guang-Hsiung Kou, Ming-Fen Huang, Geen-Dong Chang, Chu-Fang Lo. **Journal of Virology** 2015 Jan 89(2), 1083-1093.

[Methylglyoxal in cells elicits a negative feedback loop entailing transglutaminase 2 and glyoxalase 1.](#) **Der yen Lee**, Geen Dong Chang. **Redox Biology** 2014 Jan Volume 2, Pages 196–205.

**I-Ching Chou**

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**Specialty:** Pediatric Neurology, Pediatrics, Medical Genetics

**Hospital Appointments :**

Jul, 1998~Feb, 1999	Attending Physician in Pediatric Emergency	China Medical University Hospital
Sep, 2000~ Jul, 2009	Attending Physician in Pediatric Neurology	China Medical University Hospital
Aug, 2009~Now	Director of Pediatric Neurology	China Medical University Hospital

**Academic Appointment :**

Dec, 2004~Nov, 2008	Assistant Professor	China Medical University
Dec, 2008~Jan, 2015	Associate Professor	China Medical University
Feb, 2015~Now	Professor	China Medical University

**Professional Training:**

Aug, 1991~Aug, 1993	Intern in Medicine	Taichung Veterans General Hospital
Sep, 1993~Aug, 1996	Resident in Pediatrics	China Medical University Hospital
Sep, 1996~Jun, 1997	Clinical Fellow in Pediatric Neurology	China Medical University Hospital
Jul, 1997~Feb, 1998	Clinical Fellow in Pediatric Neurology	National Cheng Kung University Hospital
Jan, 1998~Dec, 1998	Clinical Fellow in Pediatric Neurology	Taichung Veterans General Hospital
Jan, 1999~Dec, 2000	Research Fellow in Pediatric Neurology	University Michigan Hospital, Ann Arbor, USA
Jan, 2003~Dec, 2005	Clinical Fellow in Medical Genetics	China Medical University Hospital

**Short Introduction:**

Dr. I-Ching Chou is Director of pediatric neurology at Child's Hospital of China Medical University and an associate professor at China Medical University in Taiwan. Dr. Chou received an M.D. degree from China Medical University, and completed residency training in Pediatrics and fellowship training in Pediatric Neurology and Medical Genetics at China Medical University, National Cheng Kung University Hospital, Taichung Veterans General Hospital, Taiwan and University Michigan Hospital, Ann Arbor, USA. She has been Director of pediatric neurology at China Medical University Hospital since 2009. The research in Dr. Chou's laboratory aims to identify the genetic basis of complex traits, particularly neurobehavioral phenotypes such as febrile seizure, epilepsy, and Tourette Syndrome.

### Publications:

1. Hong SY, **Chou IC**, Lin WD, Tsai FJ, A case of Pitt-Hopkins syndrome presented with Angelman-like syndromic phenotypes. *Biomedicine (Taipei)*. 2016 Dec; 6(4):25. Epub 2016 Nov 19.
2. **Chou IC**, Kao CH. The intriguing relationship between epilepsy and type 1 diabetes mellitus. Reply to Sander JW, Novy J, Keezer MR [letter]. *Diabetologia*. 2016 Jul; 59(7):1571-2. doi: 10.1007/s00125-016-3999-z. Epub 2016 May 18. No abstract available.
3. **Chou IC**, Lai HC, Tsai FJ, Chang YT, Lin SS, Hong SY, Lee IC. Marked improvement in febrile infection-related epilepsy syndrome after lidocaine plus MgSO<sub>4</sub> treatment in a 12-year-old girl. *Epilepsy Behav Case Rep*. 2016 Jun 2; 6:6-9. doi: 10.1016/j.ebcr.2016.05.002. eCollection 2016.
4. **Chou IC**, Lin CC, Kao CH. Risk of Epilepsy in Type 1 Diabetes Mellitus: A Population-Based Cohort Study. *Diabetologia*. 2016 Jun; 59(6):1196-203. doi: 10.1007/s00125-016-3929-0.
5. Lin WD, Wang CH, Wu KH, **Chou IC**, Tsai FJ\*. Identification and Characterization of Mutations in the CLCN7 Gene in a Taiwanese Patient with Infantile Malignant Osteopetrosis. *Pediatr Neonatol*. 2016 Apr; 57(2): 155-157.
6. Hong SY, **Chou IC**, Lin WD, Tsai FJ\*. A case of Pitt-Hopkins syndrome presented with Angelman-like syndromic phenotypes. *Biomedicine (Taipei)*. 2016 Dec; 6(4):25. Epub 2016 Nov 19.
7. Lin WD, Ke YY, **Chou IC**, Wang CH, Tsai FJ. Deletion of Exon 4 in the N-Acetylgalactosamine-4-Sulfatase Gene in a Taiwanese Patient with Mucopolysaccharidosis Type VI. *Tohoku J Exp Med*. 2015; 235(4): 267~73.
8. Lin WD, Wang CH, Wu KH, **Chou IC**, Tsai FJ. Identification and Characterization of Mutations in the CLCN7 Gene in a Taiwanese Patient with Infantile Malignant Osteopetrosis. *Pediatr Neonatol*. 2015 Aug; 13: doi:10.1016/j.pedneo.2015.04.013.
9. **Chou IC**, Lin CC, Kao CH. Enterovirus Encephalitis Increases the Risk of Attention Deficit Hyperactivity Disorder: A Taiwanese PopulationBased Case Control Study. *Medicine*. 2015

April; 94(16): e707.

10. **Chou IC**, Lin CC, Sung FC, Kao CH. Attention Deficit Hyperactivity Disorder Increases the Risk of Deliberate Self Poisoning: A Population based Cohort Study. *Eur Psychiat* 2014; 29(8):523~7.
11. Paschou P, Yu D, Gerber G, Evans P, Tsetsos F, Davis LK, Karagiannidis I, Chaponis J, Gamazon E, Mueller Vahl K, Stuhmann M, Schloegelhofer M, Stamenkovic M, Hebebrand J, Noethen M, Nagy P, Barta C, Tarnok Z, Rizzo R, Depienne C, Worbe Y, Hartmann A, Cath DC, Budman CL, Sandor P, Barr C, Wolanczyk T, Singer H, **Chou IC**, Grados M, Posthuma D, Rouleau GA, Aschauer H, Freimer NB, Pauls DL, Cox NJ, Mathews CA, Scharf JM. Genetic association signal near NTN4 in Tourette Syndrome. *Ann Neurol*. 2014; 76(2):310~5.
12. **Chou IC**, Lin CC, Sung FC, Kao CH. Attention deficit–hyperactivity disorder increases risk of bone fracture: a population based cohort study. *Dev Med Child Neurol* 2014; 56:1111~6.
13. **Chou IC**, Lin SS, Lin WD, Wang CH, Chang YT, Tsai FJ, Tsai CH. Successful control with carbamazepine of one family with paroxysmal kinesigenic dyskinesia of PRRT2 mutation. *BioMedicine*. 2014; 4(2): 51~53.
14. **Chou IC**. Hyperactivity and Impulsivity in Children and Allergic Rhinitis: Is There a Link? *Pediatr Neonatol*. 2014; 55(3):157~8. Chang YT, Wang CH, **Chou IC**, Lin WD, Chee SY, Kuo HT, Tsai FJ. Case report of Chromosome 3q25 deletion syndrome or Mucopolysaccharidosis IIIB. *BioMedicine*. 2014; 4(1):34~7.
16. Lin WD, Wang CH, **Chou IC**, Tsai FJ. A novel one base insertion mutation in the retinitis pigmentosa 2 gene in a large X linked Taiwanese family. *Acta Ophthalmol*. 2014; 92(2):e161~2.
17. Shen CP, **Chou IC**, Liu HP, Lee CC, Tsai Y, Wu BT, Hsu BD, Lin WY, Tsai FJ. Association of Glutathione S Transferase P1 (GSTP1) Polymorphism with Tourette syndrome in Taiwanese Patients. *Genet Test Mol Biomarkers*. 2014; 18(1): 41~48.
18. Wu BT, Lin WY, **Chou IC**, Liu HP, Lee CC, Tsai Y, Lee JY, Tsai FJ. Association of poly (ADP ribose) polymerase 1 polymorphism with Tourette syndrome. *Neurol Sci*. 2013; 34(11):1911~6.
19. **Chou IC**, Lin WD, Wang CH, Chang YT, Chin ZN, Tsai CH, Tsai FJ. Möbius Syndrome in a Male with XX/XY mosaicism. *BioMedicine* 2013; 3(2): 88~91.
20. Wu BT, Lin WY, **Chou IC**, Liu HP, Lee CC, Tsai Y, Wu WC, Tsai FJ. Association of Tyrosyl DNA Phosphodiesterase 1 Polymorphism with Tourette syndrome in Taiwanese Patients. *J Clin Lab Anal*. 2013; 27(4):323~7.
21. **Chou IC**, Lin WD, Wang CH, Chang YT, Chin ZN, Tsai CH, Tsai FJ. Association Analysis between Tourette's syndrome and Two Dopamine Gene (DAT1, DBH) in Taiwanese Children.

- BioMedicine*. 2013; 3(2): 88–91.
22. Wang CH, Lin WD, Bau DT, **Chou IC**, Tsai CH, Tsai FJ. Appearance of a canthosis nigricans may precede obesity: An involvement of the insulin/IGF receptor signaling pathway. *BioMedicine*. 2013; 3(2): 82~7.
23. Lin WD, Chang KP, Wang CH, Chen SJ, Fan PC, Weng WC, Lin WC, Tsai CH, **Chou IC\***, Tsai FJ. Molecular Aspects of Dravet Syndrome Patients in Taiwan. *Clin Chim Acta*. 2013 Jun;421(1):34~40.(corresponding)
24. **Chou IC**, Chang YT, Chin ZN, Muo CH, Sung FC, Kuo HT, Tsai CH, Kao CH. Correlation between Epilepsy and Attention Deficit Hyperactivity Disorder: A Population Based Cohort Study. *Plos One*. 2013; 8(3): e57926.
25. **Chou IC**, Lin HC, Lin CC, Sung FC, Kao CH. Tourette syndrome and risk of depression: A population based cohort study in Taiwan. *J Dev Behav Pediatr*. 2013; 34(3): 181~5.
26. Chang YT, **Chou IC**, Wang CH, Chin ZN, Kuo HT, Lin CC, Tsai CH, Tsai FJ\*. Chromosome 10q Deletion del (10) (q26.1q26.3) is Associated with Cataract. *Pediatr Neonatol*. 2013; 54(2): 132~6.
27. Lin WY, Lee CC, Liu HP, **Chou IC**, Sheu JJ, Wan L, Lin YJ, Tsai Y, Tsai FJ. Association of genetic variations in x ray repair cross complementing group 1 and tourette syndrome. *J Clin Lab Anal*. 2012; 26(5): 321~4.
28. Chang YT, Lin WD, Chin ZN, Wang CS, **Chou IC\***, Kuo HT, Tsai FJ. Nonketotic hyperglycinemia: A case report and brief review. *BioMedicine*. 2012; 2(2): 80~82. (corresponding)
29. Wang CH, Lin WD, Bau DT, **Chou IC**, Tsai FJ. Genetic and clinical profiles of spondylocostal dysostosis patients in Taiwan. *Am J Med Genet A*. 2011 Nov; 155(12):3132~5.
30. Chang YT, Chen PC, Tsai IJ, Sung FC, Chin ZN, Kuo HT, Tsai CH, **Chou IC\***. Bidirectional relation between schizophrenia and epilepsy: a population based retrospective cohort study. *Epilepsia*. 2011; 52(11): 2036~42. (corresponding)
31. Chen P, Lin JJ, Lu CS, Ong CT, Hsieh PF, Yang CC, Tai CT, Wu SL, Lu CH, Hsu YC, Yu HY, Ro LS, Lu CT, Chu CC, Tsai JJ, Su YH, Lan SH, Sung SF, Lin SY, Chuang HP, Huang LC, Chen YJ, Tsai PJ, Liao HT, Lin YH, Chen CH, Chung WH, Hung SI, Wu JY, Chang CF, Chen L, Chen YT, Shen CY; Taiwan SJS Consortium, **Chou IC**. Carbamazepine induced toxic effects and HLA B\*1502 screening in Taiwan. *N Engl J Med*. 2011; 364: 1126~33.
32. Chang YT, Li YF, Muo CH, Chen SC, Chen CN, Kuo HT, Lin HC, Sung FC, Tsai CH, **Chou IC\***. Correlation of Tourette's syndrome and allergic disease: nationwide population based case control study. *J Dev Behav Pediatr*. 2011; 2(32): 98~102. (corresponding)
33. **Chou IC**, Lien HC, Lin HC, Fu JC, Kao CH, Tsai CH, Lin PH, Tsai FJ. The relationship of

- salivary and cord blood cortisol in preterm infants. *J Pediatr Endocrinol Metab.* 2011; 24(1): 85~8.
34. **Chou IC**, Wang CH, Lin WD, Tsai CH, Tsai FJ. Association Study in Taiwanese Girls with Precocious Puberty. *J Pediatr Endocrinol Metab.* 2011; 24(1): 103~4.
35. Tai YP, **Chou IC\***, Yang MS, Lin HC, Chiu HY, Kuo HT, Su BH, Tsai CH. Neonatal Intracranial Aneurysm Rupture Treated by Endovascular Management: A Case Report. *Pediatr Neonatol.* 2010; 51(4): 249~51. (corresponding)
36. Wang CH, Lin WD, Bau DT, **Chou IC**, Tsai CH, Tsai FJ. The involvement of insulin receptor genotypes in pre and co obese acanthosis Nigricans children and adolescent. *J Pediatr Endocrinol Metab.* 2010; 23(7): 653~60.
37. **Chou IC**, Lin WD, Wang CH, Tsai CH, Li TC, Tsai FJ. Interleukin (IL) 1  $\beta$ , IL 1 Receptor Antagonist, IL 6, IL 8, IL 10 and Tumor Necrosis Factor  $\alpha$  Gene Polymorphisms in Patients with Febrile Seizures. *J Clin Lab Anal.* 2010; 24(3): 154~9.
38. **Chou IC**, Lin HC, Wang CH, Lin WD, Lee CC, Tsai CH, Tsai FJ. Polymorphisms of interleukin 1 gene IL1RN are associated with Tourette syndrome. *Pediatr Neurol.* 2010 May; 42(5): 320~4.
39. Kuo HT, Lin HC, Tsai CH, **Chou IC**, Yeh TF. A follow up study of preterm infants given budesonide using surfactant as a vehicle to prevent chronic lung disease in preterm infants. *J Pediatr.* 2010; 156(4): 537~41.
40. Lin WD, **Chou IC**, Tsai FJ. Novel human pathological mutations. Gene symbol: SCN1A. Disease: generalized epilepsy with febrile seizures plus. *Hum Genet.* 2010; 127(4): 482.
41. **Chou IC**, Lin WD, Tsai FJ. Novel human pathological mutations. Gene symbol: SCN1A. Disease: generalized epilepsy with febrile seizures plus. *Hum Genet.* 2010; 127(4): 484~5.
42. Lin WD, **Chou IC**, Tsai FJ. Novel human pathological mutations gene symbol: SCN1A. Disease: generalized epilepsy with febrile seizures plus. *Hum Genet.* 2010; 127(4): 478.
43. **Chou IC**, Lin WD, Tsai FJ. Novel human pathological mutations gene symbol: SCN1A. Disease: generalized epilepsy with febrile seizures plus. Disease: generalized epilepsy with febrile seizures plus. *Hum Genet.* 2010; 127(4): 481.
44. Lin WD, **Chou IC**, Lee NC, Wang CH, Hwu WL, Lin SP, Chao MC, Tsai YS, Tsai FJ. FOXL2 mutations in Taiwanese patients with blepharophimosis, ptosis, epicanthus inversus syndrome. *Clin Chem Lab Med.* 2010; 48(4): 485~8.
45. **Chou IC**, Kuo HT, Chang JS, Wu SF, Chiu HY, Su BH, Lin HC\*. Lack of effects of oral probiotics on growth and neurodevelopmental outcomes in preterm very low birth weight infants. *J Pediatr.* 2010; 156(3): 393~6.
46. Lin HY, Lin SP, Tsai LP, Chao MC, Chen MR, Chuang CK, Huang CY, Tsai FJ, **Chou IC**,

- Chiu PC, Huang CH, Yen JL, Len JL, Kuo PL. Effects of growth hormone treatment on height, weight, and obesity in Taiwanese patients with Prader Willi syndrome. *J Chin Med Assoc.* 2008; 71(6): 305~9.
47. Tsai JD, Kuo HT, **Chou IC**. Hydranencephaly in Neonates. *Pediatr Neonatol.* 2008; 49(4) : 154~7.
48. **Chou IC**, Tsai CH, Wan L, Tsai FJ. Association study between Tourette's syndrome and polymorphisms of noradrenergic genes (ADRA2A, ADRA2C). *Psychiatr Genet.* 2007 ;(17) : 359.
49. **Chou IC**, Wan L, Liu SC, Tsai CH, Tsai FJ. Association of the slit and Trk like 1 gene in Taiwanese patients with Tourette syndrome. *Pediatr Neurol.* 2007; (37): 404~6.
50. Lee CC, **Chou IC**, Tsai CH, Wan L, Shu YA, Tsai Y, LI TC, Tsai FJ. Association of idiopathic generalized epilepsy with polymorphisms in the neuronal nicotinic acetylcholine receptor subunits. *J Clin Lab Anal.* 2007; 21(2): 67~70.
51. **Chou IC**, Lee CC, Tsai CH, Tsai Y, Wan L, Hsu YA, Li TC, Tsai FJ. Association of GABRG2 polymorphisms with idiopathic generalized epilepsy. *Pediatr Neurol* 2007; 36(1): 40~4.
52. **Chou IC**, Wang CH, Lin WD, Lin HC, Tsai CH, Wang TR, Tsai FJ. Holocarboxylase synthetase deficiency: Report of one case. *Pediatr Neonatol.* 2006; 47(6): 309~11.
53. Tsai JD, Kuo HT, **Chou IC**, Chang JS, Su BH . Vein of galen aneurysm complicated with pulmonary hypertension: report of one newborn case. *Pediatr Neonatol.* 2006; 47(1): 34~7.
54. **Chou IC**, Chan AC, Lee WT, Tsai CH, Tsai FJ. Duchenne Muscular Dystrophy in a patient with Congenital Adrenal Hyperplasia. International proceedings of the 10<sup>th</sup> international Child Neurology Congress.2006.
55. Lin HC, Su BH, Hsu CM, **Chou IC**, Wu KH, Lin HC, Tsai FJ, Tsai CH. No association between TAP1 DpnII polymorphism and bronchopulmonary dysplasia. *Pediatr Neonatol.* 2005; 46(6) : 341~5.
56. Lee CC, **Chou IC**, Tsai CH, Wang TR, Li TC, Tsai FJ. Dopamine receptor D2 gene polymorphisms are associated in Taiwanese children with Tourette syndrome. *Pediatr Neurol.* 2005; 33(4): 272~6.
57. Tsai JD, Kuo HT, **Chou IC**, Tsai MY, Tsai CH. A clinical analysis of children with developmental delay. *Pediatr Neonatol.* 2005; 46(4): 192~5.
58. Tsai JD, **Chou IC\***, Tsai FJ, Kuo HT, Tsai CH. Clinical manifestation and carbamazepine treatment of patients with paroxysmal kinesigenic choreoathetosis. *Pediatr Neonatol.* 2005; 46(3): 138~42. (corresponding)
59. **Chou IC**, Tsai CH, Lee CC, Kuo HT, Hsu YA, Li CI, Tsai FJ. Association analysis between



- Tourette's syndrome and dopamine D1 receptor gene in Taiwanese children. *Psychiatr Genet.* 2004; 14(4): 219~21.
60. **Chou IC**, Tsai CH, Lee CC, Lin SS, Tsai FJ. Brain derived neurotrophic factor (BDNF) Val66Met polymorphisms in febrile seizures. *Epilepsy Res.* 2004; 60(1): 27~9.
61. Hsueh KC, **Chou IC**, Kuo HT, Tsai CH. Miller Fisher syndrome possibly related to mycoplasma pneumoniae infection. *Acta Neurol Taiwan.* 2004; 45(3): 168~70.
62. **Chou IC**, Tsai CH, Tsai FJ. Febrile convulsions and genetic susceptibility: Role of the neuronal nicotinic acetylcholine receptor  $\alpha 4$  subunit. *Epilepsia.* 2004; 45(5): 561~6.
63. Peng CT, **Chou IC**, Li CI, Hsu YA, Tsai CH, Tsai FJ. Association of the nicotinic receptor beta 2 subunit and febrile seizures. *Pediatr Neurol.* 2004; 30(3): 186~9.
64. **Chou IC**, Tsai CH, Hsieh YY, Peng CT, Tsai FJ. Association between polymorphism of interleukin 1B 511 promoter and susceptibility to febrile convulsions in Taiwanese children. *Acta Paediatr.* 2003; (11):1356~56.
65. **Chou IC**, Lee CC, Huang CC, Wu JY, Tsai JJ, Tsai CH, Tsai FJ. Association of the neuronal nicotinic acetylcholine receptor subunit alpha4 polymorphisms with febrile convulsions. *Epilepsia* 2003; 44(8):1089~93.
66. **Chou IC**, Peng CT, Huang CC, Tsai JJ, Tsai FJ, Tsai CH. Association analysis of gamma 2 subunit of gamma-aminobutyric acid type A receptor polymorphisms with febrile seizures. *Pediatr. Res* 2003; 54(1): 26~9.
67. **Chou IC**, Peng CT, Tsai FJ, Huang CC, Shi YR, Tsai CH. The lack of association between febrile convulsions and polymorphisms in SCN1A. *Epilepsy Res.* 2003; 54(1): 53~7.
68. Liu JT, Wang CH, **Chou IC**, Sun SS, Koa CH , Cooper E. Regaining consciousness for prolonged comatose patients with right median nerve stimulation. *Acta Neurochir.* 2003; 87: 11~4.
69. Chen WY, Lin CY, **Chou IC**, Tsai FJ, Sun SS. The Role of Tc ECD Brain SPECT in differentiating Tourette's syndrome from Chronic Tic Disorder. *Ann Nucl Med Sci.* 2003; 16: 59~63.
70. Kuo HT, **Chou IC**, Tsai CH. Taiwan Pediatric Neurology field of child development research literature review. *Acta Neurol Taiwan.* 2003(1): 208~10.
71. **Chou IC**, Tsai FJ, Yu MT, Tsai CH. Smith Magenis syndrome with bilateral vesicoureteral reflux: a case report. *J Formos Med Assoc.* 2002(10): 726~8.
72. **Chou IC**, Tsai FJ, Huang CC, Lin CC, Tsai CH. The voltage gated potassium channel KCNQ2 in Taiwanese children with febrile convulsions. *Neuroreport* 2002; 13(15): 1971~3.
73. **Chou IC**, Mak SC, Lin TP, Chi CS, Pen HC. Bacterial meningitis of an infant with currarino triad. *Pediatr Neonatol.* 2002; 43(5): 288~90.

74. Lin SS, Kuo HT, **Chou IC**, Lee YH, Shen WC, Tsai CH. Joubert syndrome report of one case. *Acta Neurol Taiwan*. 2002(20): 7~9.
75. Tsai FJ, **Chou IC**, Hsieh YY, Lee CC, Lin CC, Tsai CH. Interleukin 4 intron 3 polymorphism is not related to susceptibility to febrile seizures. *Pediatr Neurol*. 2002(4): 271~4.
76. **Chou IC**, Trakht T, Sihnor C, Smith J, Felt BT, Vazquez DM, Barks JD. Behavioral/environmental intervention improves learning after cerebral hypoxia ischemia in rats. *Stroke*. 2001(9): 2192~7.
77. Sun SS, **Chou IC**, Lai YH, Kao CH. 99mTc ECD SPECT image in children with Gilles de la Tourette's syndrome: a preliminary report. *Ann Nucl Med Sci* 2001(3): 149~53.
78. **Chou IC**, Tsai CH, Tsai FJ. Rotavirus associated with poliomyelitis like syndrome. *Pediatr Infect Dis J* 1998 (10): 930~1.
79. Tsai CH, Tsai FJ, Peng CT, Lee CC, **Chou IC**. Incontinentia Pigmentia: Experience of Seventeen Cases. *Med J CMCH*. 1997(2): 198~202.

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**Research Interests:** Neuroscience, Autophagy, New Drug Discovery

**Academic Distinctions:**

**Appointments:**

2012-2016: Assistant Professor: Graduate Institute of Integrated Medicine, CMU

2016-present: Associate Professor: Graduate Institute of Integrated Medicine, CMU

**Research Interests:**

The research themes in my lab aim to study the mechanism of autophagy activation in the treatment of neurodegenerative diseases. We have combined the biochemical approaches and disease mouse model to address autophagic regulation in disease progression of Parkinson's or Alzheimer's Diseases.

**Representative Publications:**

**Hung, S.Y.**, Huang, W.P., Liou, H.C., and Fu, W.M. (2009). **Autophagy protects neuron from Abeta-induced cytotoxicity.** *Autophagy* 5(4), 502-510. (IF = 9.108; ranking in cell biology = 19/187 , 10.2%)

**Hung, S.Y.**, Liou, H.C., and Fu, W.M. (2010) **The mechanism of heme oxygenase-1 action involved in the enhancement of neurotrophic factor expression.** *Neuropharmacology* 58(2), 321-329. (IF = 4.936; Ranking in pharmacology & pharmacy = 19/255 , 7.5%)

Chan, W.L., Yuo, C.Y., Yang, W.K., **Hung, S.Y.**, Chang, Y.S., Chiu, C.C., Yeh, K.T., Huang, H.D., and Chang, J.G. (2013). **Transcribed pseudogene psiPPM1K generates endogenous siRNA to suppress oncogenic cell growth in hepatocellular carcinoma.** *Nucleic acids research* 41(6), 3734-3747 (IF= 9.202; ranking in biochemistry & molecular biology=18/289 , 6.2%)

**Hung, S.Y.**, Shih, Y.P., Chen, M., and Lo, S.H. (2014). **Up-Regulated Cten by FGF2 Contributes to FGF2-Mediated Cell Migration.** *Molecular carcinogenesis* 53(10), 787-792. (IF= 4.722; ranking in oncology=42/213 , 19.7%)

Lin, C.Y., **Hung, S.Y.**, Chen, H.T., Tsou, H.K., Fong, Y.C., Wang, S.W., and Tang, C.H. (2014). **Brain-derived neurotrophic factor increases vascular endothelial growth factor expression and enhances angiogenesis in human chondrosarcoma cells.** *Biochemical pharmacology* 91(4), 522-533. (IF = 5.091; Ranking in pharmacology & pharmacy = 18/255 , 7.1%)

**Hung, S.Y.**, Huang, W.P., Liou, H.C., and Fu, W.M. (2015). **LC3 overexpression reduces Abeta neurotoxicity through increasing alpha7nAChR expression and autophagic activity in neurons and mice.** *Neuropharmacology* 93, 243-251. (IF = 4.936; Ranking in pharmacology & pharmacy = 19/255 , 7.5%)

Lin, M.W., Huang, Y.B., Chen, C.L., Wu, P.C., Chou, C.Y., Wu, P.C., and **Hung, S.Y.** (2016). **A formulation study of 5-aminolevulinic encapsulated in DPPC liposomes in melanoma treatment.** *International Journal of Medical Sciences* (IF= 2.232; Ranking in medicine, general & internal = 37/155 , 23.9%)



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**Research Interests:** Integrative Medicine

**Appointments:**

2002-2006: Postdoctoral fellow: Institute of Clinical Medicine, National Yang-Ming University

2006-2010: Assistant Professor: Graduate Institute of Integrated Medicine, CMU

2010-2014: Associate Professor: Graduate Institute of Integrated Medicine, CMU

**Research Interests:**

Cardiovascular disease and vascular biology. (Establish cell culture and animal model for endothelial dysfunction, smooth muscle cell proliferation, atherosclerosis, and vascular inflammation.)

Cell biology and intracellular signaling pathways. (Explore the role of cell adhesion molecules, transcription factors, mitogen-activated protein-kinases, free radicals, and inflammation cytokines in the development of atherosclerosis.)

Traditional herbal medicine development. (Screen and develop the potential drugs against vascular diseases and inflammatory disorders.)

**Representative Publications:**

[Toward a new insight of calcium oxalate stones in \*Drosophila\* by micro-computerized tomography](#). Chen WC, Chen HY, Liao PC, Wang SJ, Tsai MY, **Chen YH**,\* Lin WY. *Urolithiasis*. 2017 Mar 4. doi: 10.1007/s00240-017-0967-0. [Epub ahead of print]

[Current Advances in the Biological Activity of Polysaccharides in \*Dendrobium\* with Intriguing Therapeutic Potentia](#) . Lee CT, Kuo HC, **Chen YH**,\* Tsai MY. *Curr Med Chem*. 2017 Feb 27. doi: 10.2174/0929867324666170227114648. [Epub ahead of print]

[Long-Term Therapy With Wu-Ling-San, a Popular Antilithic Chinese Herbal Formula, Did Not Prevent Subsequent Stone Surgery: A Nationwide Population-Based Cohort Study](#). Wu SY, Chen HY, Tsai KS, Chiang JH, Muo CH, Sung FC, **Chen YH**,\* Chen WC. *Inquiry*. 2016;53.

[Prescription pattern of Chinese herbal products for heart failure in Taiwan: A population-based study](#). Tsai MY, Hu WL, Lin CC, Lee YC, Chen SY, Hung YC, **Chen YH**,\* *Int J Cardiol*. 2017;228:90-96.

[Study protocol for a single-blind, placebo-controlled randomised trial of Tianjiu effects in patients with intradialytic hypotension](#). Tsai MY, Su YJ, Ng HY, Chen SY, Huang YC, Wu CH, **Chen YH**,\* *BMJ Open*. 2016;6(3):e009976.

[Traditional Chinese Medicine Decreases the Stroke Risk of Systemic Corticosteroid Treatment in Dermatitis: A Nationwide Population-Based Study](#). Tsai KS, Yen CS, Wu PY, Chiang JH, Shen JL, Yang CH, Chen HY, **Chen YH**,\* Chen WC. *Evid Based Complement Alternat Med*. 2015;2015:543517.

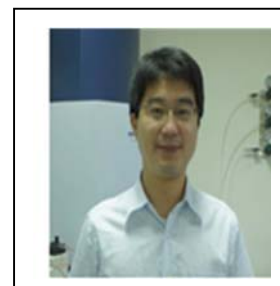
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**Research Interests:** Mass Spectrometry, Proteomics, Metabolomics

**Academic Distinctions:**

Young Scholar Award, Taiwan Society for Mass Spectrometry (2016)

**Appointments:**

2008-2010: Postdoctoral fellow, Agricultural Biotechnology Research Center, Academia Sinica

2010-2013: Assistant professor, Graduate institute of integrated medicine, China Medical University

2013-present: Associate professor, Graduate institute of integrated medicine, China Medical University

**Research Interests:**

We are interested in the development of novel analytical approaches on liquid chromatography-mass spectrometry (LC-MS) and MALDI-TOF MS. These novel analytical methods are further applied in discovering practical and specific disease biomarkers. We have already discovered protein or peptide markers of stroke, diabetes nephropathy, urothelial carcinoma, and drug-resistant bacterial. We also integrated proteomic with metabolomic results to reveal possible disease mechanism.

**Representative Publications:**

1. [Peptide biomarker discovery for identification of methicillin-resistant and vancomycin-intermediate Staphylococcus aureus strains by MALDI-TOF](#). Lu JJ, Tsai FJ, Ho CM, Liu YC, **Chen CJ\***, *Anal. Chem.*, **2012**, 84, 5685-5692.
2. [Simple fabrication of hydrophobic surface target for increased sensitivity and homogeneity in matrix-assisted laser desorption/ionization time-of-flight mass spectrometry analysis of peptides, phosphopeptides, carbohydrates and proteins](#). **Chen CJ\***, Lai CC, Tseng MC, Liu YC, Lin SY, Tsai FJ\*, *Anal Chim Acta* **2013**, 783, 31-38.
3. [Biochemical and functional characterization of charge-defined subfractions of high-density lipoprotein from normal adults](#). Hsieh JY, Chang CT, Huang MT, Chang CM, Chen CY, Shen MY, Liao HY, Wang GJ, Chen CH\*, **Chen CJ\***, Yang CY\* *Anal. Chem.*, **2013**, 81, 11440-11448.
4. [A novel titanium dioxide-polydimethylsiloxane plate for phosphopeptide enrichment and mass spectrometry analysis](#). **Chen CJ\***, Lai CC, Tseng MC, Liu YC, Liu YH, Chiou LW, Tsai FJ, *Anal Chim Acta* **2014**, 812, 105-113.
5. [Allyl isothiocyanate \(AITC\) inhibits pregnane X receptor \(PXR\) and constitutive androstane receptor \(CAR\) activation and protects against acetaminophen- and amiodarone-induced cytotoxicity](#). Lim YP\*, Cheng CH, Chen WC, Chang SY, Hung DZ, Chen JJ, Wan L, Ma WC, Lin YH, Chen CY, Yokoi T, Nakajima M, **Chen CJ\*** *Arch Toxicol*, **2015**, 89(1), 57-72.
6. [Proteome Profiling of Urinary Exosomes Identifies Alpha 1-Antitrypsin and H2B1K as Diagnostic and Prognostic Biomarkers for Urothelial Carcinoma](#). Lin SY, Chang CH, Wu HC, Lin CC, Chang KP, Yang CR, Huang CP, Hsu WH, Chang CT, **Chen CJ\*** *Sci Rep*, **2016** Sep 30;6:34446.



**Name:** Huey-Yi Chen M.D., Ph.D.

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**E-mail address:** d888208@ms45.hinet.net

**Current Position/Title:**

Professor & Consultant

Department of Obstetrics and Gynecology, China Medical University Hospital,  
Graduate Institute of Integrated Medicine, China Medical University, Taichung,  
Taiwan.

**Education/Continuing Education (University and/or higher degree; major, years):**

1980-1987 M.D.

China Medical University, Taichung, Taiwan.

1999-2003 Ph.D.

National Tsing Hua University, Hsinchu, Taiwan.

**Professional Certification:**

1989-1992 Registrar

Department of Obstetrics and Gynecology, China Medical University Hospital,  
Taichung, Taiwan.

1992-1993 Chief Registrar

Department of Obstetrics and Gynecology, China Medical University Hospital,  
Taichung, Taiwan.

1993-1994 Fellow

Department of Obstetrics and Gynecology, China Medical University Hospital,  
Taichung, Taiwan.

Department of Urogynecology, Mackay Memorial Hospital, Taipei, Taiwan.

1994-Present Consultant Obstetrician & Gynecologist and urogynecologist

Department of Obstetrics and Gynecology, China Medical University Hospital,  
Taichung, Taiwan.

1997-2001 Lecturer

School of Medicine, China Medical University, Taichung, Taiwan.

2001-2004 Assistant Professor

School of Chinese Medicine, China Medical University, Taichung, Taiwan.

2005-2008 Associate Professor

School of Chinese Medicine, China Medical University, Taichung, Taiwan.

2008/4-2008/9 Associate Professor

Graduate Institute of Integrated Medicine, China Medical University, Taichung,  
Taiwan.

2008/10- Professor

Graduate Institute of Integrated Medicine, China Medical University, Taichung,  
Taiwan.

### **Membership/Association:**

1993-Present Taiwan Association of Obstetrics and Gynecology

1995-Present Taiwan Urogynecology Association

2016-President, Taiwan Urogynecology Association

### **Selected peer-reviewed publications since 2009 (in chronological order):**

1. **Huey-Yi Chen**, Tsan-Hung Chiu, Ming Ho, Yao-Ching Hung. Analysis of risk factors associated with surgical failure of sacrospinous suspension for uterine or vaginal vault prolapse. **Int Urogynecol J Pelvic Floor Dysfunct** 2009;20(4):387-391. (IF=1.832 ; R/C=30/79, OBSTETRICS & GYNECOLOGY)
2. **Huey-Yi Chen**, Ya-Wen Chung, Wei-Yong Lin, Wen-Chi Chen, Fuu-Jen Tsai, Chang-Hai Tsai. Progesterone receptor polymorphism is associated with pelvic organ prolapse risk. **Acta Obstet Gynecol Scand** 2009;88(7):835-838. (IF=1.771 ; R/C=32/79, OBSTETRICS & GYNECOLOGY)
3. **Huey-Yi Chen**, Wei-Yong Lin, Yung-Hsiang Chen, Wen-Chi Chen, Fuu-Jen Tsai, Chang-Hai Tsai. Matrix metalloproteinase-9 polymorphism and risk of pelvic organ prolapse in Taiwanese women. **Eur J Obstet Gynecol Reprod Biol** 2010;149:222-224. (IF=1.974 ; R/C=27/79, OBSTETRICS & GYNECOLOGY)
4. **Huey-Yi Chen**, Ming Ho, Yin-Yi Chang, Yao-Ching Hung, Wen-Chi Chen. Risk factors for surgical failure after posterior intravaginal slingplasty: a case series. **Eur J Obstet Gynecol Reprod Biol** 2011;155:106-109. (IF=1.974 ; R/C=27/79, OBSTETRICS & GYNECOLOGY)
5. **Huey-Yi Chen**, Yu-Ning Lin, Yung-Hsiang Chen , Wen-Chi Chen. Stress urinary incontinence following vaginal trauma involves remodeling of urethral connective tissue in the female mice. **Eur J Obstet Gynecol Reprod Biol** 2012;163:224-229. (IF=1.974 ; R/C=27/79, OBSTETRICS & GYNECOLOGY) (NSC 100-2314-B-039-007)
6. **Huey-Yi Chen**, Chao-Jung Chen, Yu-Ning Lin, Yung-Hsiang Chen, Wen-Chi Chen, Chuan-Mu Chen. Proteomic analysis related to stress urinary incontinence following vaginal trauma in female mice. **Eur J Obstet Gynecol Reprod Biol** 2013;171:171-179. (IF=1.974 ; R/C=27/79, OBSTETRICS & GYNECOLOGY) (NSC 101-2314-B-039-018)
7. Yung-Hsiang Chen, Yu-Ning Lin, Wen-Chi Chen, Wen-Tsong Hsieh, **Huey-Yi Chen**. Treatment of stress urinary incontinence by cinnamaldehyde, the major constituent of the chinese medicinal herb ramulus cinnamomi. **Evid Based Complement Alternat Med** 2014; 2014: 280204. (IF=2.18; R/C = 6/21,



INTEGRATIVE & COMPLEMENTARY MEDICINE) (NSC 101-2314-B-039-018)  
(通訊作者)

8. Yung-Hsiang Chen, Yu-Ning Lin, Wen-Chi Chen, Wen-Tsong Hsieh, **Huey-Yi Chen**. Treatment of stress urinary incontinence by ginsenoside Rh2. **Am J Chin Med** 2014;42: 817-831. (IF=2.625; R/C = 2/21, INTEGRATIVE & COMPLEMENTARY MEDICINE) (NSC 101-2314-B-039-018) (通訊作者)
9. Yung-Hsiang Chen, Chao-Jung Chen, Shuyuan Yeh, Yu-Ning Lin, Yang-Chang Wu, Wen-Tsong Hsieh, Bor-Tsang Wu, Wen-Lung Ma, Wen-Chi Chen, Chawnshang Chang, **Huey-Yi Chen**. Urethral dysfunction in female mice with estrogen receptor  $\beta$  deficiency. **PLoS One** 2014 Oct 2;9(9):e109058. (IF=3.534; R/C = 12/84, BCH & MICRO) (NSC 101-2314-B-039-018) (通訊作者)
10. Chen YH, Chen CJ, Lin YN, Wu YC, Hsieh WT, Wu BT, Ma WL, Chen WC, Tsai KS, Wu SY, Chang C, **Chen HY**, Yeh S. Proteomic analysis of urethral protein expression in an estrogen receptor  $\alpha$ -deficient murine model of stress urinary incontinence. **World J Urol** 2015;33(10):1635-43. (IF=2.666; R/C = 9/93, Urology) (NSC 101-2314-B-039-018) (通訊作者)

#### Research Support since 2011

##### *Ongoing Research Support*

1. "Proteomic analysis related to cyclophosphamide-induced overactive bladder"  
**DMR-105-063**
2. "The efficacy of Astragalus polysaccharides on overactive bladder" **DMR-105-082**
3. "The efficacy of Astragalus polysaccharides and Astragaloside IV on urothelial injury"  
**MOST105-2320-B-039-030-**

##### *Completed Research Support*

4. "Molecular mechanism related to stress urinary incontinence following simulated birth trauma" **DMR-100-091**
5. "Molecular mechanism related to stress urinary incontinence following simulated birth trauma and ovariectomy" **DMR-101-072**
6. "The roles of estrogen receptor in stress urinary incontinence" **NSC 100-2314-B-039-007**
7. "Drug discovery and development for stress urinary incontinence" **NSC 101-2314-B-039-018**
8. "Proteomic analysis related to stress urinary incontinence following vaginal trauma"  
**DMR-102-059**
9. "Potential botanical drug for stress urinary incontinence" **DMR-103-063**
10. "Proteomic analysis related to overactive bladder following ovariectomy"  
**DMR-104-058**

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Dr.P.H., Epidemiology, Loma Linda University (U.S.A), 2009

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URL: <http://cmucaewa.cmu.edu.tw/english/faculty.html>



**Research Interests:** Epidemiology, Genetic epidemiology, Biostatistics, Clinical Trial

**Academic Distinctions:**

Hulda Crooks Research and Public Health Practice Grant. Loma Linda University (2008)

Merritt C. Horning Award for Outstanding Student Research. Loma Linda University (2007)

**Appointments:**

2000-2001: Research Assistant, Institute of Biomedical Sciences, Academia Sinica, Taiwan

2001-2003: Medical Technologist/Quality Assurance Team Leader, Protech Pharmaservices Corporation, Taipei, Taiwan

2009-2010: Doctoral Instructor, Department of Chinese Medicine, CMUH

2010-2011: Postdoctoral Fellow: Department of Health Risk Management, CMU

2011-2017: Postdoctoral Fellow: Center for Personalized Medicine, CMUH

2013-present: Assistant Professor: Graduate Institution of Integrated Medicine, CMU

2017-present: Assistant Research Fellow: Center for Personalized Medicine, CMUH

**Research Interests:**

The research themes in my lab are to utilize different epidemiology designs and biostatistics methods to reach the goal of personalized medicine. We combine different factors, including environment/lifestyle, genetic/epigenetic markers and proteomic biomarkers to assay the risk and progression of diseases and the drug response for individuals. Students with different background are welcome to join us !!

**Representative Publications:**

[Pharmacogenetics of dipeptidyl peptidase 4 inhibitors in a Taiwanese population with type 2 diabetes.](#) Liao WL, Lee WJ, Chen CC, Lu CH, Chen CH, Chou YC, Lee IT, Sheu WH, Wu JY, Yang CF, Wang CH, Tsai FJ. **Oncotarget**. 2017 Feb 1. doi: 10.18632/oncotarget.14951

[PTPRD silencing by DNA hypermethylation decreases insulin receptor signaling and leads to type 2 diabetes.](#)

Chen YT, Lin WD, Liao WL, Lin YJ, Chang JG, Tsai FJ. **Oncotarget**. 2015 May 30;6(15):12997-3005.

[Chimerin 2 genetic polymorphisms are associated with non-proliferative diabetic retinopathy in Taiwanese type 2 diabetic patients.](#) Chen M, Lin WR, Lu CH, Chen CC, Huang YC, Liao WL, Tsai FJ. **J Diabetes Complications**. 2014 Jul-Aug;28(4):460-3. doi: 10.1016/j.jdiacomp.2014.04.009.

[Gene polymorphisms of adiponectin and leptin receptor are associated with early onset of type 2 diabetes mellitus in the Taiwanese population.](#) Liao WL, Chen CC, Chang CT, Wu JY, Chen CH, Huang YC, Tsai CH, Tsai FJ. **Int J Obes (Lond)**. 2012 Jun;36(6):790-6. doi: 10.1038/ijo.2011.174.

[The association between polymorphisms of B7 molecules \(CD80 and CD86\) and Graves' ophthalmopathy in a Taiwanese population.](#) Liao WL, Chen RH, Lin HJ, Liu YH, Chen WC, Tsai Y, Wan L, Tsai FJ. **Ophthalmology**. 2011 Mar;118(3):553-7.



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URL: <http://cmucacwa.cmu.edu.tw/english/faculty.html>

**Research Interests:** Chinese Medicine treating stroke and epilepsy from basic to clinical;  
Acupuncture physiology

**Academic Distinctive:**

Distinguished Teaching Professor, College of Chinese Medicine, CMU (2009)

Distinguished Teaching Professor, College of Chinese Medicine, CMU (2010)

Distinguished Teaching Professor, College of Chinese Medicine, CMU (2011)

Distinguished Teaching Professor, College of Chinese Medicine, CMU (2012)

Distinguished Teaching Professor, College of Chinese Medicine, CMU (2013)

Distinguished Teaching Professor, College of Chinese Medicine, CMU (2014)

Top Research Award, Chinese Medicine Clinical Trial and Research, Taiwan Ministry of Health and Welfare Clinical Trial Center (2014)

Epilepsy Research Document Award, Taiwan Epilepsy Society (2015)

**Appointment:**

1981-1984: Resident Doctor, Department of Internal Medicine, CMU Hospital

1985-1991: Attending Physician, Department of Internal Medicine, CMU Hospital

1995-2000: Associate Professor, CMU

1996-2000: Director, School of Chinese Medicine, CMU

1997-2000: Director, Graduate Institute of China Medical Science, CMU

2000-2001: Professor, Chang-Gung University

2002-2009: Deputy Superintendent, CMU Hospital

2008-2014: Director and Professor, Acupuncture Research Center,

2008-2012: Director and Professor, Graduate Institute of Acupuncture Science, CMU

## CMU Faculty Profile

2012~: Director and Professor, Graduate Institute of Integrated Medicine, CMU

2016~ Director and Professor, Research Center of Chinese and Acupuncture, CMU\

2016~Director and Professor, Graduate Institute of Acupuncture Science, CMU

### Research Interests:

The research theme in my laboratory room aim was to investigate the effect of Chinese Medicine and acupuncture on stroke and epilepsy included basic research and clinical trial. In addition, Acupuncture and meridian basic theory and its evidence based.

### Representative Publications:

[Effects of the traditional Chinese herb \*Astragalus membranaceus\* in patients with poststroke fatigue: A double-blind, randomized, controlled preliminary study.](#) Chung-Hsiang Liu, Chang-Hai Tsai, Tsai-Chung Li, Yu-Wan Yang, Wei-Shih Huang, Ming-Kui Lu, Chun-Hung Tseng, Hui-Chun Huang, Kuan-Fei Chen, Thih-Shan Hsu, Yi-Ting Hsu, Chon-Haw Tsai, **Ching-Liang Hsieh\***. **Journal of Ethnopharmacology**, 2016, 194: 954–962.

[Electric stimulation of the ears ameliorated learning and memory impairment in rats with cerebral ischemia-reperfusion injury.](#) Ching-Tung Kuo, Yi-Wen Lin, Nou-Ying Tang, Chin-Yi Cheng & **Ching-Liang Hsieh\***. **Scientific Reports** 2016 Feb;6:20381. DOI: 10.1038/srep20381.

[Auricular electroacupuncture reduced inflammation-related epilepsy accompanied by altered TRPA1, pPKCalpha, pPKCepsilon, and pERk1/2 signaling pathways in kainic acid-treated rats.](#) Yi-Wen Lin & **Ching-Liang Hsieh\***. **Mediators of Inflammation**. 2014 Jul;2014:493480. DOI: 10.1155/2014/493480.

[Electroacupuncture-like stimulation at the Baihui \(GV20\) and Dazhui \(GV14\) acupoints protects rats against subacute-phase cerebral ischemia-reperfusion injuries by reducing S100B-mediated neurotoxicity.](#) Chin-Yi Cheng, Jaung-Geng Lin, Nou-Ying Tang, Shung-Te Kao & **Ching-Liang Hsieh\***. **PLoS ONE**. 2014 Mar;9(3):e91426. DOI: 10.1371/journal.pone.0091426.