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PERSONAL DETAILS

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CURRENT APPOINTMENTS

Feb 2024 – present Division of Epilepsy, Neurological Institute, Taipei Veterans General Hospital, Taiwan
• Chief

Dec 2013 – present Division of Epilepsy, Neurological Institute, Taipei Veterans General Hospital, Taiwan
• Attending physician

Aug 2020 – present Faculty of Medicine, National Yang-Ming University School of Medicine, Taiwan
• Associate Professor

Apr 2023 – present Taiwan Epilepsy Society
• Director

Sep 2025 – present Taiwan Society of Neurological Rare Diseases (SNeRD-T)
• Executive Supervisor

EDUCATION

Sep 2010 – Dec 2014 PhD
Department of Molecular Neurosciences, UCL Institute of Neurology, Queen Square, London, U.K.

Oct 1994 – Jun 2001 M.D.
Department of Medicine, College of Medicine, National Taiwan University School of Medicine, Taipei, Taiwan.

PROFESSIONAL APPOINTMENTS AND QUALIFICATIONS

Dec 2013 – present Department of Neurology, Neurological Institute, Taipei Veterans General Hospital, Taiwan
• Attending physician

Sep 2022 – Sep 2025 Taiwan Society of Neurological Rare Diseases (SNeRD-T)
• President

Sep 2007 – May 2009 Department of Neurology, Taipei City Hospital, Renai Branch, Taiwan
• Attending physician

Jul 2005 – Sep 2007 Su Ao Veterans Hospital, I-Lan County, Taiwan
• Attending physician
• Teaching Director of the Medical Education and Ethics Committee

- Head of the Community Service Committee

Jul 2001 – Jul 2005 Department of Neurology, Neurological Institute, Taipei Veterans General Hospital, Taiwan
 • Resident doctor

PUBLICATIONS (Selected)

*Corresponding author, # equal contribution

1. **Epilepsy-associated FOXJ3 variants link a transcriptional program of the PTEN-mTOR pathway to neuronal specification and cortical lamination.** Cheng HY#, Liu C#, Nian CW\$, Huang HC\$, Zhao HJ\$, Nian FS, Chen C, Custodio HM, Sisodiya SM, Lu C, Chen HH, Hsu CS, Pi WC, Chu CC, Hsu JS, Chen PL, Chang FP, Tung CY, Chou SJ, Alavi S, Houlden H, Chen WY, Liu YT*, Hou PS*, and Tsai JW*. *Nat Commun.* 2026 Mar 9;17(1):1815. doi: 10.1038/s41467-026-69241-2. (SCI)
2. **Knowledge Graph Representation of the Mappings between Seizure Semiology and Epileptogenic Zones.** Yanga S, Wenb Z, Zhana W, Fotedarc N, Shih YC, Dinga JE, Bernardof D, Kallioniemig E, Alexandergh W, Huangi X, Rosenowj F, Sunk H, Liu YT*#, Wul S*#, and Liu F*#. *Scientific Reports.* 2026 Jan 10;16(1):3004. doi: 10.1038/s41598-025-32920-z. (SCI)
3. **Clinical Impact of Pharmacogenetic Risk Variants in a Large Chinese Cohort.** Wei CY#, Wen MS#, Cheng CK#, Sheen YJ#, Yao TC#, Lee SL#,...YT Liu,...Chen CH*, Chien CC*, Chiang HS*, Chiu YL*, Chen HC*, and Kwok PY*. *Nat Commun.* 2025 Jul 9;16(1):6344. doi: 10.1038/s41467-025-61644-x.(SCI)
4. **Effects of dual-task training on gait variability in individuals with Parkinson's disease: A randomized controlled trial.** Zhou JH, Wang RY, Liu YT, Cheng SJ, Liu HH, Yang YR*. *J Sci Med Sport.* 2025 Jun 20:S1440-2440(25)00187-2. (SCI)
5. **Relationship Between Executive Function and Dual-Task Walking in People with Parkinson's Disease.** Zhou JH, Wang RY, Liu YT, Cheng SJ, Liu HH and Yang YR*. *Front Aging Neurosci.* 2025 Jun 18;17:1585524. eCollection 2025.(SCI)
6. **The Structural and Dynamic Insights into the Ala97Ser Amyloidogenic Mutation in Transthyretin.** Feng YC, Agrawal S,Yang CH, Chang HC, Kuo L, Yu WC, Liu YT*# and Yu TY.*# *Chemistry - An Asian Journal*, 2024 Dec 12:e202401438. (SCI)
7. **Recent Advance in Disease Modifying Therapies for Spinal Muscular Atrophy.** Tsai LK, Ting CH, Liu YT, Hsiao CT, Weng WC; Society for Neurological Rare Disorders-Taiwan. *Acta Neurol Taiwan.* 2024 Sep 30;33(3):81-88. (review)
8. **Improvement in Executive Function and Dual-task Cost in People With Parkinson Disease: A Randomized Controlled Trial.** Zhou JH, Wang RY, Liu YT, Cheng SJ, Liu HH, Yang YR*. *J Neurol Phys Ther.* 2024 Oct 1;48(4):188-197. Epub 2024 Sep 17. (SCI) ****The winner of the Golden Synapse award as the most outstanding article published in JNPT in 2024.
9. **Magnetic resonance radiomics-derived sphericity correlates with seizure in brain arteriovenous malformations.** Lin JY, Lu CF, Hu YS, Yang HC, Liu YT, Loo JK, Lee KL, Liao CY, Chang FC, Liou KD, Lin CJ*. *Eur Radiol.* 2024 Jan;34(1):588-599.(SCI)
10. **Monogenic causes in familial stroke across intracerebral hemorrhage and ischemic stroke subtypes identified by whole exome sequencing.** Chang LH, Chi NF, Chen CY, Lin YS, Hsu SL, Ysai JY, Hunag HC, Lin CJ, Chung CP, Tung CY, Jeng CJ, Lee YC, Liu YT*#, Lee IH*#. *Cell Mol Neurobiol.* 2023 Aug;43(6):2769-2783.(SCI)
11. **Plasma Matrix Metalloproteainase-9 Is Associated with Seizure and Angioarchitecture Changes in Brain Arteriovenous Malformations.** Liu YT, Lee CC, Chang FC, Liou KD, Lin CC*. *Mol Neurobiol.* 2022 Oct;59(10):5925-5934.(SCI)
12. **Clinical characteristics and long-term outcome of cerebral cavernous malformations-related epilepsy.** Shih YC, Chou CC, Peng SJ, Yu HY, Hsu SPC, Lin CF, Lee CC, Yang HC, Chen YC, Kwan SY, Chen C, Wang SJ, Lin CJ, Lirng JF, Shih YH, Yen DJ, Liu YT*. *Epilepsia.* 2022 Aug;63(8):2056-2067.(SCI)

13. **Novel Lissencephaly-Associated DCX Variants in the C-terminal DCX Domain Affect Microtubule Binding and Dynamics.** Lin JR[#], Cheng JF[#], Liu YT, Hsu TR, Lin KM, Chen C, Lin CL, Tsai MH, Tsai JW*. *Epilepsia*. 2022 May;63(5):1253-1265.(SCI)
14. **The clinical and imaging features of FLNA positive and negative periventricular nodular heterotopia.** Lu YT, Hsu CY, Liu YT, Chang CK, Chuang YC, Lin CJ, Chang KP, Ho CJ, Ng CC, Lim KS, Tsai MH*. *Biomed J*. 2022 Jun;45(3):542-548.(SCI)
15. **Acute withdrawal of new-generation antiepileptic drugs in epilepsy monitoring units: Safety and efficacy.** Chou CC, Lin PT, Yen DJ, Yu HY, Kwan SY, Chen C, Liu YT, Shih YC, Lin SY*. *Epilepsy Behav*. 2021 Apr;117:107846.(SCI)
16. **Cellular secretion and cytotoxicity of transthyretin mutant proteins underlie late onset amyloidosis and neurodegeneration.** R B Ibrahim, SY Yeh, KP Lin, F Ricardo, TY Yu, CC Chan, JW Tsai^{**}, YT Liu^{**}. *Cell Mol Life Sci*. 2020 Apr;77(7):1421-1434. (SCI)
17. **Gamma Knife radiosurgery for cerebral cavernous malformation.** Lee CC, Wang WH, Yang HC, Lin CJ, Wu HM, Lin YY, Hu YS, Chen CJ, Chen YW, Chou CC, Liu YT, Chung WY, Shiau CY, Guo WY, Hung-Chi Pan D, Hsu SPC. *Sci Rep*. 2019 Dec 24;9(1):19743. (SCI)
18. **Biophysical characterization and pharmacological modulation of Transthyretin Ala97Ser mutant.** YT Liu, YJ Yen, F Ricardo, Y Chang, PH Wu, SJ Huang, KP Lin*, TY Yu*. *Ann Clin Transl Neurol*. 2019 Oct;6(10):1961-1970.(SCI)
19. **Novel SCA19/22-associated KCND3 mutations disrupt human KV4.3 protein biosynthesis and channel gating.** Hsiao CT, Fu SJ, Liu YT, Liao YC, Lu YH, Huang JJ, Chien YC, Zhong CY, Tsai PC, Tang CY, Lee YC, Soong BW*, Jeng CJ*. *Hum Mutat*. 2019 Nov;40(11):2088-2107.
20. **PDXK mutations cause polyneuropathy responsive to PLP supplementation.** Chelban V, Wilson MP, Warman Chardon J, Vandrovцова J, Zanetti MN, Zamba-Papanicolaou E, Efthymiou S, Pope S, Conte MR, Abis G, Liu YT, Tribollet E, Haridy NA, Botía JA, Ryten M, Nicolaou P, Minaidou A, Christodoulou K, Kernohan KD, Eaton A, Osmond M, Ito Y, Bourque P, Jepson JEC, Bello O, Bremner F, Cordivari C, Reilly MM, Foiani M, Heslegrave A, Zetterberg H, Heales SJR, Wood NW, Rothman JE, Boycott KM, Mills PB, Clayton PT, Houlden H*; Care4Rare Canada Consortium; SYNAPS Study Group. *Ann Neurol*. 2019 Aug;86(2):225-240.
21. **Clinical and genetic profiles of hereditary transthyretin amyloidosis in Taiwan.** Chao HC, Liao YC, Liu YT, Guo YC, Chang FP, Lee YC*, Lin KP*. *Ann Clin Transl Neurol*. 2019 Apr 9;6(5):913-922. (SCI)
22. **PRRT2 Missense Mutations Cluster near C-terminus and Frequently Lead to Protein Mislocalization.** Tsai MH, Nian FS, Hsu MH, Liu WS, Liu YT, Liu C, Lin PH, Hwang DY, Chuang YC, Tsai JW*. *Epilepsia*. 2019 May;60(5):807-817. (SCI)
23. **Contributions of Animal Models to the Mechanisms and Therapies of Transthyretin Amyloidosis.** Ibrahim RB, Liu YT, Yeh SY, Tsai JW. *Front Physiol*. 2019 Apr 2;10:338. doi: 10.3389/fphys.2019.00338. eCollection 2019. Review. (SCI)
24. **Aberrant sensory gating of the primary somatosensory cortex contributes to the motor circuit dysfunction in paroxysmal kinesigenic dyskinesia.** Liu YT, Chen YC, Kwan SY, Chou CC, Yu HY, Yen DJ, Liao KK, Chen WT, Lin YY, Chen RS, Jih KY, Lu SF, Wu YT, Wang PS, Hsiao FJ*. *Front Neurol*. 2018 Oct 15;9:831. (SCI)
25. **Mutational analysis of ITPR1 in a Taiwanese cohort with cerebellar ataxias.** Hsiao CT, Liu YT, Liao YC, Hsu TY, Lee YC, Soong BW. *PLoS One*. 2017 Nov 29;12(11):e0187503.
26. **Genetic and clinical characteristics of NEFL-related Charcot-Marie-Tooth disease.** Horga A, Laurà M, Jaunmuktane Z, Jerath NU, Gonzalez MA, Polke JM, Poh R, Blake JC, Liu YT, Wiethoff S, Bettencourt C, Lunn MP, Manji H, Hanna MG, Houlden H, Brandner S, Züchner S, Shy M, Reilly MM*. *J Neurol Neurosurg Psychiatry*. 2017 Jul;88(7):575-585. (SCI)
27. **A recurrent WARS mutation is a novel cause of autosomal dominant distal hereditary motor neuropathy.** Tsai PC, Soong BW, Mademan I, Huang YH, Liu CR, Hsiao CT, Wu HT, Liu TT, Liu YT, Tseng YT, Lin KP, Yang UC, Chung KW, Choi BO, Nicholson GA, Kennerson ML, Chan CC, De Jonghe P, Cheng TH, Liao YC, Züchner S, Baets J, Lee YC*. *Brain*. 2017 May 1;140(5):1252-1266. (SCI)

28. **Clinical and Biophysical Characterization of Nineteen GJB1 Mutations.** Tsai PC, Yang DM, Liao YC, Chiu YU, Kuo HC, Su YP, Guo YC, Soong BW, Lin KP, Liu YT*(Co-corresponding Author), Lee YC*. *Ann Clin Transl Neurol.* 2016 Sep 1;3(11):854-865.
29. **PRRT2 mutations lead to neuronal dysfunction and neurodevelopmental defects.** Liu YT, Nian FS, Chou WJ, Tai CY, Kwan SY, Chen C, Kuo PW, Lin PH, Chen CY, Lee YC, Soong BW*, Tsai JW*. *Oncotarget.* 2016 Jun 28;7(26):39184-39196.
30. **Pure cerebellar ataxia with homozygous mutations in the PNPLA6 gene.** Wiethoff S, Bettencourt C, Paudel R, Madon P, Liu YT, Hersheson J, Wadia N, Desai J, Houlden H. *Cerebellum.* 2016 Mar 19. (SCI)
31. **Clinical and molecular characterization of BSCL2 mutations in a Taiwanese cohort with hereditary neuropathy.** Hsiao CT, Tsai PC, Lin CC, Liu YT, Huang YH, Liao YC, Lin KP, Soong BW, Lee YC. *PLoS One.* 2016 Jan 27;11(1):e0147677 (SCI)
32. **Mutational analysis of TBK1 in Taiwanese patients with amyotrophic lateral sclerosis.** Tsai PC, Liu YC; Lin KP, Liu YT, Liao YC, Hsiao CT, Soong BW, Yip PK. *Neurobiol Aging.* 2016 Apr;40:191.e11-6 (IF:5.193, GERIATRICS & GERONTOLOGY, 5/49, 10.2%)
33. **Characterization of CADASIL among the Han Chinese in Taiwan: Distinct Genotypic and Phenotypic Profiles.** Liao YC, Hsiao CT, Fuh JL, Chern CM, Lee WJ, Guo YC, Wang SJ, Lee IH, Liu YT, Wang YF, Chang FC, Chang MH, Soong BW, Lee YC. *PLoS One.* 2015 Aug 26;10(8):e0136501.(SCI)
34. **Two Novel De Novo GARS Mutations Cause Early-Onset Axonal Charcot-Marie-Tooth Disease.** Liao YC, Liu YT, Tsai PC, Chang CC, Huang YH, Soong BW, Lee YC. *PLoS One.* 2015 Aug 5;10(8):e0133423.(SCI)
35. **What we have learned from the next generation sequencing: contributions to the genetic diagnoses and understanding of pathomechanisms of neurodegenerative diseases.** Liu YT, Lee YC, Soong BW. *J Neurogenet.* 2015 Jun-Sep;29(2-3):103-12. (SCI)
36. **Acute simultaneous multiple lacunar infarcts as the initial presentation of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy.** Hsiao CT, Chen YC, Liu YT, Soong BW, Lee YC. *J Chin Med Assoc.* 2015 Jul;78(7):424-6. (SCI)
37. **Defects of mutant DNMT1 are linked to a spectrum of neurological disorders.** Baets J, Duan X, Wu Y, Smith G, Seeley W, Mademan I, McGrath NM, Beade NC, Khoury J, Botuyan M, Mer G, Worrell GA, Hojo K, DeLeon J, Laura M, Liu YT, Senderek JP, Weis J, Van den Bergh P, Merrill SL, Reilly MM, Houlden H, Grossman M, Scherer S, De Jonghe P, Dyck PJ, Klein CJ. *Brain.* 2015 Apr;138(Pt 4):845-61. (SCI)
38. **Novel HSN1 Mutation in Serine Palmitoyltransferase Resides at a Putative Phosphorylation Site That Is Involved in Regulating Substrate Specificity.** Ernst D, Murphy SM, Sathiyandan K, Wei Y, Othman A, Laurá M, Liu Y, Penno A, Blake J, Donaghy M, Houlden H, Reilly MM, Hornemann T. *Neuromolecular Med.* 2015 Mar;17(1):47-57. (SCI)
39. **A novel TFG mutation causes Charcot-Marie-Tooth disease type 2 and impairs TFG function.** Tsai PC, Huang YH, Guo YC, Wu HT, Lin KP, Tsai YS, Liao YC, Liu YT, Liu TT, Kao LS, Yet SF, Fann MJ, Soong BW, and Lee YC. *Neurology.* 2014 Sep 2;83(10):903-12. (SCI)
40. **Extended phenotypic spectrum of KIF5A mutations: from spastic paraplegia to axonal neuropathy.** Liu YT, Laurá M, Hersheson J, Horga A, Jaunmuktane Z, Brandner S, Pittman A, Hughes D, Polke J, Sweeney MG, Proukakis C, Janssen JC, Auer-Grumbach M, Zuchner S, Shields K, Reilly MM, and Houlden H. *Neurology.* 2014 Jul 9;83(1):1-8. (SCI)
41. **Autosomal-recessive cerebellar ataxia caused by a novel ADCK3 mutation that elongates the protein: clinical, genetic and biochemical characterisation.** Liu YT, Hersheson J, Plagnol V, Fawcett K, Duberley KE, Preza E, Hargreaves IP, Chalasani A, Laurá M, Wood NW, Reilly MM, Houlden H. *J Neurol Neurosurg Psychiatry.* 2014 May;85(5):493-8. (SCI)
42. **Novel CI2orf65 mutations in patients with axonal neuropathy and optic atrophy.** Tucci A, Liu YT, Preza E, Pitceathly RD, Chalasani A, Plagnol V, Land JM, Trabzuni D, Ryten M; on behalf of UKBEC, Jaunmuktane Z, Reilly MM, Brandner S, Hargreaves I, Hardy J, Singleton AB, Abramov AY, Houlden H. *J Neurol Neurosurg Psychiatry.* 2014 May;85(5):486-92. (SCI)

43. **Exome sequencing identifies a significant variant in methionyl-tRNA synthetase (MARS) in a family with late-onset CMT2.** Gonzalez M, McLaughlin H, Houlden H, Guo M, Liu YT, Hadjivassiliou M, Speziani F, Yang XL, Antonellis A, Reilly MM, Züchner S; Inherited Neuropathy Consortium. *J Neurol Neurosurg Psychiatry*. 2013 Nov;84(11):1247-9. (SCI)
44. **Hereditary sensory and autonomic neuropathy type 1 (HSAN1) caused by a novel mutation in SPTLC2.** Murphy SM, Ernst D, Wei Y, Laurà M, Liu YT, Polke J, Blake J, Winer J, Houlden H, Hornemann T, Reilly MM. *Neurology*. 2013 Jun 4;80(23):2106-11. (SCI)
45. **The frequency of spinocerebellar ataxia type 23 in a UK population.** Fawcett K, Mehrabian M, Liu YT, Hamed S, Elahi E, Revesz T, Koutsis G, Hersheson J, Schottlaender L, Wardle M, Morrison PJ, Morris HR, Giunti P, Wood N, Houlden H. *J Neurol*. 2013 Mar;260(3):856-9. Epub 2012 Oct 30. Erratum in: *J Neurol*. 2013 Mar;260(3):860. (SCI)
46. **Advances in the genetics of peripheral nerve disorders.** Pandraud A, Liu YT, Houlden H. *Advances in clinical neuroscience and rehabilitation*. 2012; 12(2): 8-13. Review article.
47. **Charcot-Marie-Tooth disease: frequency of genetic subtypes and guidelines for genetic testing.** Murphy SM, Laura M, Fawcett K, Pandraud A, Liu YT, Davidson GL, Rossor AM, Polke JM, Castleman V, Manji H, Lunn MP, Bull K, Ramdharry G, Davis M, Blake JC, Houlden H, Reilly MM. *J Neurol Neurosurg Psychiatry*. 2012 Jul;83(7):706-10.(SCI)
48. **Transthyretin Ala97Ser in Chinese-Taiwanese patients with familial amyloid polyneuropathy: genetic studies and phenotype expression.** Liu YT, Lee YC, Yang CC, Chen ML, Lin KP. *J Neurol Sci*. 2008 Apr 15;267(1-2):91-9. (SCI)
49. **A novel ABCD1 gene mutation in a Chinese-Taiwanese patient with adrenomyeloneuropathy.** Liu YT, Lin KH, Soong BW, Liao KK, Lin KP. *Pediatr Neurol*. 2007 May;36(5):348-50.(SCI)
50. **Correlation of magnetic resonance images with neuropathology in acute Wernicke's encephalopathy.** Liu YT, Fuh JL, Lirng JF, Li AF, Ho DM, Wang SJ. *Clin Neurol Neurosurg*. 2006 Oct;108(7):682-7. (SCI)
51. **Median nerve motor conduction velocity is concordant with myelin protein zero gene mutation.** Lee YC, Soong BW, Liu YT, Lin KP, Kao KP, Wu ZA. *J Neurol*. 2005 Feb;252(2):151-5.(SCI)
52. **Isolated oculomotor nerve palsy due to head injury.** Liu YT, Lee YC, Liu HC. *J Chin Med Assoc*. 2004 Mar;67(3):149-51.