

**Yen-Feng Lin, MD, ScD (林彥鋒)**

Assistant Investigator Attending Physician  
Center for Neuropsychiatric Research,  
National Health Research Institutes, Taiwan

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**Website :** <http://lin-lab.site/>

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**EDUCATION**

- |  |                    |
|--|--------------------|
| <b>Harvard Chan School of Public Health</b>  | Boston, MA, USA    |
| • ScD, Department of Epidemiology  | 2018               |
| <i>Major: Epidemiology; Minor: Biostatistics and Genetic Epidemiology</i>  |                    |
| Advisor: Dr. Deborah Blacker   |                    |
| Dissertation Title: Genetic overlap and causal mediation relationship between psychiatric and non-psychiatric phenotypes |                    |
| <b>Johns Hopkins Bloomberg School of Public Health</b>   | Baltimore, MD, USA |
| • MHS, Department of Mental Health   | 2013               |
| <b>Harvard School of Public Health</b>   | Boston, MA, USA    |
| • M.S., Department of Epidemiology   | 2012               |
| <b>National Yang-Ming University</b>   | Taipei, Taiwan     |
| • M.D., School of Medicine   | 2004               |

**CLINICAL TRAINING**

- |   |                |
|---|----------------|
| <b>Taipei City Psychiatric Center</b>       | Taipei, Taiwan |
| • Resident and Chief Resident in Psychiatry | 2004-2008      |

**PROFESSIONAL APPOINTMENTS**

- |  |                |
|--|----------------|
| <b>National Health Research Institutes</b>   | Miaoli, Taiwan |
| • Assistant Investigator Attending Physician, Center for Neuropsychiatric Research | 2019-Present   |
| <b>National Cheng Kung University</b>  | Tainan, Taiwan |
| • Adjunct Assistant Professor, Institute of Behavioral Medicine                    | 2021-Present   |
| <b>National Yang Ming Chiao Tung University</b>                                    | Taipei, Taiwan |
| • Adjunct Assistant Professor, School of Medicine                                  | 2019-Present   |
| <b>National Cheng-Chi University</b>   | Taipei, Taiwan |
| • Adjunct Assistant Professor, Department of Psychology                            | 2018-2019      |

**Taipei City Psychiatric Center**

- Attending Psychiatrist, Department of Psychiatry

Taipei, Taiwan

2017-2019

**En Chu Kong Hospital**

- Attending Psychiatrist, Department of Psychiatry

Taipei, Taiwan

2008-2010

**OTHER RESEARCH TRAINING****Massachusetts General Hospital**

- Graduate Research Fellow, Psychiatric & Neurodevelopmental Genetics Unit

Boston, MA, USA

2015-2018

**National Institute of Aging**

- Visiting Researcher, Laboratory of Epidemiology and Population Science

Bethesda, MD, USA

2016

**Icelandic Heart Association Research Institute**

- Visiting Researcher, AGES Reykjavik Study

Kópavogur, Iceland

2016

**JOURNAL PUBLICATIONS**

1. Chen TT, Kim J, Lam M, Chuang YF, Chiu YL, Lin SC, Jung SH, Kim B, Kim S, Cho C, Shim I, Park S, Ahn Y, Okbay A, Jang H, Kim HJ, Seo SW, Park WY, Ge T, Huang H, Feng YCA, **Lin YF\***, Myung W\*, Chen CY\*, Won HH\*. Shared genetic architectures of educational attainment in East Asian and European populations. *Nat Hum Behav.* 2024 Jan 5. doi: 10.1038/s41562-023-01781-9.
2. Lai RY, Su MH, **Lin YE**, Chen CY, Pan YJ, Hsiao PC, Chen PC, Huang YT, Wu CS, Wang SH. Relationship between mood disorders and substance involvement and the shared genetic liabilities: A population-based study in Taiwan. *J Affect Disord.* 2024 Jan 15;345:168-176.
3. Chen CY\*, Chen TT, Feng YCA\*, Yu M, Lin SC, Longchamps RJ, Wang SH, Hsu YH, Yang HI, Kuo PH, Daly MJ, Chen WJ, Huang H \*, Ge T\*, **Lin YF\***. Analysis across Taiwan Biobank, Biobank Japan, and UK Biobank identifies hundreds of novel loci for 36 quantitative traits. *Cell Genomics.* 2023 Dec 13; 3(12): 100436.
4. Chiu YW, Su MH, **Lin YE**, Chen CY, Chen TT, Wang SH. Causal influence of sleeping phenotypes on the risk of coronary artery disease and sudden cardiac arrest: A Mendelian randomization analysis. *Sleep Health.* 2023 Oct; 9(5):726-732.
5. Campos AI, Namba S, Lin SC, Nam K, Sidorenko J, Wang H, Kamatani Y, Biobank Japan Project; Wang LH, Lee S, **Lin YE**, Feng YA, Okada Y, Visscher PM, Yengo L. Boosting the power of genome-wide association studies within and across ancestries by using polygenic scores. *Nat Genet.* 2023 Oct;55(10):1769-1776.
6. Chung AN, Chen TT, **Lin, YF\***. Genetics of antidepressant response and treatment-resistant depression. *Prog Brain Res.* 2023 Mar 2; 278:25-60.
7. Huang CY, **Lin YE**, Chen CR, Lin SK. Post-therapy plasma concentrations of quetiapine in Taiwanese patients. *Neuropsychopharmacol Rep.* 2023 Jan 16; 43(1):50-56.
8. Wang Y, Namba S, Lopera E, Kerminen S, Tsuo K, Läll K, ... Chen TT, ..., **Lin YE**, ... & UCLA ATLAS Community Health Initiative. Global Biobank analyses provide lessons for developing polygenic risk scores across diverse cohorts. *Cell Genomics.* 2023 Jan 4; 3(1): 100241.
9. Liao SF, Su CY, Su MH, Chen CY, Chen CY, **Lin YE**, Pan YJ, Hsiao PC, Chen PC, Huang YT, Wu CS, Wang SH.

- Associations of polygenic risks, depression, and obesity-related traits in Taiwan Biobank. *J Affect Disorders*. 2023 Jan 1;320:397-403.
10. **Lin YF**, Chou WH, Liu TH, Fang CP, Kuo HW, Kuo PH, Tsai SJ, Wang SC, Chung RH, Tsou HH, Chen ACH, Liu YL. Splice-site variants in the gene encoding GABA-A receptor delta subunit are associated with amphetamine use in patients under methadone maintenance treatment. *Int J Mol Sci*. 2022 Dec 31; 24(1):721.
  11. Kanai M, Elzur R, Zhou W, Wu KHH, Rasheed H, Tsuo, K., ... Chen TT, ..., **Lin YF**, ... & Biobank of the Americas. Meta-analysis fine-mapping is often miscalibrated at single-variant resolution. *Cell Genomics*. 2022 Dec 14;2(12): 100210.
  12. Chen TT, Chen CY, Fang CP, Cheng YC, **Lin YF\***. Causal influence of dietary habits on the risk of major depressive disorder: A diet-wide Mendelian randomization analysis. *J Affect Disord*. 2022 Dec 15;319:482-489.
  13. Feng YCA, Chen CY, Chen TT, Kuo PH, Hsu YH, Yang HI, Chen WJ, Su MW, Chu HW, Shen CY, Ge T, Huang H, **Lin YF\***. Taiwan Biobank: A rich biomedical research database of the Taiwanese population. *Cell Genomics*. 2022 Nov 9;2(11):100197.
  14. Zhou W, Kanai M, Wu KHH, Rasheed H, Tsuo K, Hirbo JB, ..., **Lin YF**, .... & Study, COH. Global Biobank Meta-analysis Initiative: Powering genetic discovery across human disease. *Cell Genomics*. 2022 Oct 12;2(10):100192.
  15. Su MH, Lai RY, **Lin YF**, Chen CY, Feng YA, Hsiao PC, Wang SH. Evaluation of the causal relationship between smoking and schizophrenia in East Asia. *Schizophrenia (Heidelb)*. 2022 Sep 9;8(1):72.
  16. Wang SH, Su MH, Chen CY, **Lin YF**, Feng YCA, Hsiao PC, Pan YJ, Wu CS. Causality of abdominal obesity on cognition: a trans-ethnic Mendelian Randomization study. *Int J Obes (Lond)*. 2022 Aug;46(8):1487-1492.
  17. Ruan Y, **Lin YF**, Feng YA, Chen CY, Lam M, Guo Z; Stanley Global Asia Initiatives; He L, Sawa A, Martin AR, Qin S, Huang H, Ge T. Improving polygenic prediction in ancestrally diverse populations. *Nat Genet*. 2022 Aug;54(8):1259.
  18. Ge T, Irvin MR, Patki A, Srinivasasainagendra V, **Lin YF**, Tiwari HK, Armstrong ND, Benoit B, Chen CY, Choi KW, Cimino JJ, Davis BH, Dikilitas O, Etheridge B, Feng YA, Gainer V, Huang H, Jarvik GP, Kachulis C, Kenny EE, Khan A, Kiryluk K, Kottyan L, Kullo IJ, Lange C, Lennon N, Leong A, Malolepsza E, Miles AD, Murphy S, Namjou B, Narayan R, O'Connor MJ, Pacheco JA, Perez E, Rasmussen-Torvik LJ, Rosenthal EA, Schaid D, Stamou M, Udler MS, Wei WQ, Weiss ST, Ng MCY, Smoller JW, Lebo MS, Meigs JB, Limdi NA, Karlson EW. Development and validation of a trans-ancestry polygenic risk score for type 2 diabetes in diverse populations. *Genome Med*. 2022 Jun 29;14(1):70.
  19. Su MH, Shih YH, **Lin YF**, Chen PC, Chen CY, Hsiao PC, Pan YJ, Liu YL, Tsai SJ, Kuo PH, Wu CS, Huang YT, Wang SH. Familial aggregation and shared genetic loading for major psychiatric disorders and type 2 diabetes. *Diabetologia*. 2022 May;65(5):800-810.
  20. **Lin YF**, Chen PY, Liu HC, Chen YL, Chou WH, Huang MC. Shortened leukocyte telomere length in young adults who use methamphetamine. *Transl Psychiatry*. 2021 Oct 9;11(1):519.
  21. Chou PH#, **Lin YF**#, Lu MK, Chang HA, Chu CS, Chang WH, Kishimoto T, Sack AT, Su KP. Personalization of repetitive transcranial magnetic stimulation for the treatment of major depressive disorder according to the existing psychiatric comorbidity. *Clin Psychopharmacol Neurosci*. 2021; 19(2): 190-205 (#equal contribution as co-first authors)
  22. **Lin YF\***. Methodology in the GBD study of China. *Lancet*. 2020 Jul;396(10243):25-26.

23. **Lin YF**, Smith AV, Aspelund T, Betensky RA, Smoller JW, Gudnason V, Launer LJ, Blacker D\*. Genetic overlap between vascular pathologies and Alzheimer's dementia and potential causal mechanisms. *Alzheimers Dement*. 2019 Jan;15(1):65-75.
24. Lin SK\*, **Lin YF**, Yang SY, He YL, Kato TA, Hayakawa K, Park Y, Sim K, Chiu HFK, Xiang Y, Chong MY, Tan CH, Inada T, Shinfuku N. Comparison of the defined daily dose and chlorpromazine equivalent methods in antipsychotic drug utilization in six Asian countries. *Neuropsychiatry (London)*. 2018; 8(6), 1847–1852.
25. **Lin YF\***, Chen CY, Öngür D, Betensky R, Smoller JW, Blacker D, Hall MH. Polygenic pleiotropy and potential causal relationships between educational attainment, neurobiological profile, and positive psychotic symptoms. *Transl Psychiatry*. 2018 May 16;8(1):97.
26. Chang YS, Trivedi MK, Jha A, **Lin YF**, Dimaano L, García-Romero MT\*. Synbiotics for Prevention and Treatment of Atopic Dermatitis: A Meta-analysis of Randomized Clinical Trials. *JAMA Pediatr*. 2016 Mar 1;170(3):236-242.
27. **Lin YF**, Huang MC, Liu HC\*. Glycogen Synthase Kinase 3 $\beta$  gene polymorphisms may be associated with bipolar I disorder and its response to lithium treatment. *J Affect Disord*. 2013 May;147(1-3):401-6.
28. Wang SC, Tsou HH, Chen CH, Chen YT, Ho IK, Hsiao CF, Chou SY, **Lin YF**, Fang KC, Huang CL, Su LW, Fang YC, Liu ML, Wu HY, Lin KM, Liu SC, Kuo HW, Chiang IC, Chen ACH, Tian JN, Liu YL\*. Genetic polymorphisms in the opioid receptor mu1 gene are associated with changes in libido and insomnia in methadone maintenance patients. *Eur Neuropsychopharmacol*. 2012 Oct;22(10):695-703.
29. Chen CH, Wang SC, Tsou HH, Ho IK, Tian JN, Yu CJ, Hsiao CF, Chou SY, **Lin YF**, Fang KC, Huang CL, Su LW, Fang YC, Liu ML, Lin KM, Hsu YT, Liu SC, Chen ACH, Liu YL\*. Genetic polymorphisms in CYP3A4 are associated with withdrawal symptoms and adverse reactions in methadone maintenance patients. *Pharmacogenomics*. 2011 Oct; 12(10):1397-406.

## BOOK CHAPTERS

1. Chung AN, Chen TT, **Lin YF\***. Genetics of Antidepressant Response and Treatment Resistant Depression. In: *Treatment-Resistant Depression, Progress in Brain Research*. 2023 Mar 2; 278:25-60. Elsevier. ISBN: 9780323957786. (<https://doi.org/10.1016/bs.pbr.2023.01.002>)

## PREPRINT MANUSCRIPTS

1. Yuan K, Longchamps R J, Pardinas A F, Yu M, Chen TT, Lin SC, ..., **Lin YF**, ... & Huang, H. Fine-mapping across diverse ancestries drives the discovery of putative causal variants underlying human complex traits and diseases. *medRxiv* 2023.01.07.23284293; doi: <https://doi.org/10.1101/2023.01.07.23284293>
2. Walters R, Fairhurst-Hunter Z, Lin K, Millwood I, Pozarickij A, Chen TT, ..., **Lin YF**, ... & Holmes M. Trans-ancestry meta-analysis improves performance of genetic scores for multiple adiposity-related traits in East Asian populations. *ResearchSquare* 2022; doi: <https://doi.org/10.21203/rs.3.rs-1832470/v1>
3. Wu CS, Hsu CL, Lin MC, Su MH, **Lin YF**, Chen CY, Hsiao PC, Pan YJ, Chen PC, Huang YT, Wang SH. Independent effect and joint effect of polygenic liabilities for schizophrenia and bipolar disorder on cognitive aging and education attainment. *medRxiv* 2022.03.14.22272327; doi: <https://doi.org/10.1101/2022.03.14.22272327>

**SELECTED CONFERENCE PRESENTATIONS**

1. **YF Lin.** Polygenic prediction of antidepressant treatment response and treatment-resistant depression. *The 62th Congress of Taiwan Society of Psychiatry*, Taichung. Nov 4-5, 2023. (Oral presentation)
2. **YF Lin.** Polygenic risk scores indicates genetic overlap between schizophrenia and methamphetamine-induced psychosis. *The 62th Congress of Taiwan Society of Psychiatry*, Taichung. Nov 4-5, 2023. (Oral presentation)
3. **YF Lin.** S. Lin, P. Kuo, S. Tsai, Y. Liu. Multi-polygenic score approach to predicting antidepressant treatment outcomes. *The 34rd CINP World Congress of Neuropsychopharmacology*, Canada May 7-10, 2023. 2023-A-607-CINP. (Oral presentation)
4. **Lin YF.** Hsu CL, Huang MC. Polygenic risk scores indicates genetic overlap between methamphetamine use and other psychiatric disorders. *The 33rd CINP World Congress of Neuropsychopharmacology*, Taipei, OA117, June 9-13, 2022. (Oral presentation)
5. **Lin YF.** Chen CY, Chen TT, Feng YCA, Longchamps RJ, Lin SC, Daly MJ, Chen WJ, Huang H, Ge T. Analysis across Taiwan Biobank, Biobank Japan and UK Biobank identifies hundreds of novel loci for 36 quantitative traits. *ASHG 2021 Virtual Meeting*. Oct. 18-22. (Platform oral presentation)
6. Yuan K, Chen TT, Lin SC, Longchamps R, Pardinas A, Lam M, Chen CY, Feng, YCA, **Lin YF**, Ge T, Huang HL. Fine-mapping across diverse ancestries drives the discovery of putative causal variants underlying human complex traits and diseases. *2021 World Congress of Psychiatric Genetics (WCPG)*. October 11-15, 2021. *European Neuropsychopharmacology*. 2021 Oct;51:E68.
7. Liu CY, Wu, CS, Hsu CL, Kuo PH, **Lin YF**. Predicting early antidepressant treatment response based on multiple genetic liability. *2021 World Congress of Psychiatric Genetics (WCPG)*. October 11-15, 2021. *European Neuropsychopharmacology*. 2021 Oct;51:E159.
8. **Lin YF.** Chen TT. Genome-wide association study of educational attainment in Taiwanese population and its genetic correlation with schizophrenia. *2021 TSBPN Annual Congress*. Oct 5, 2021 (Best poster award)
9. **Lin YF.** Liu TH, Fang CP, Liu YL. Genetic variants on GABAA receptor delta subunit are associated with amphetamine use in heroin dependent patients under methadone maintenance treatment. *CINP 2021 Virtual World Congress*. Feb 26-28, 2021.
10. Fang CP, Liu TH, Chung RH, Tsou HH, Kuo HW, Wang SC, Liu SC, Chen ACH, **Lin YF**, Liu YL. Genetic variants in NECTIN4 encoding an adhesion molecule are associated with methadone dose and skin irritation. *CINP 2021 Virtual World Congress*. Feb 26-28, 2021.
11. **Lin YF.** Chen CR, Lin SK. Prediction of plasma levels of quetiapine and its metabolites in Taiwanese psychiatric patients. *6th Congress of AsCNP*, Fukuoka, Japan. October 11-13, 2019.
12. **Lin YF.** Liu HC, Huang MC. Association between methamphetamine use and leukocyte telomere length. *WFSBP Asia Pacific Regional Congress of Biological Psychiatry*, Kobe, Japan. Sep 7-9, 2018. (oral presentation)
13. **Lin YF.** Using cross-trait polygenic risk score analysis to examine the genetic overlap between two different phenotypes. (Symposium organizer: Polygenic view on the psychiatric disorders and the clinical implications). *The 56th Congress of Taiwan Society of Psychiatry*, Tainan. Nov 4-5, 2017.
14. **Lin YF.** Chen CY, Blacker D, Öngür D, Hall MH. Polygenic pleiotropy and potential causal relationships between neurobiological profile for psychosis, higher cognitive ability, and positive psychotic symptoms. *2017 Annual Meeting of Society of Biological Psychiatry*. San Diego. May 18-20, 2017.
15. **Lin YF.** Chen CY, Cohen BM, Levy DL, Öngür D, Hall MH. Genome-wide association analyses of bio-classes of

- electroencephalogram features for schizophrenia and bipolar disorders. *2015 World Congress of Psychiatric Genetics*, Toronto. Oct 16-21, 2015.
16. Chen YW, Wu CP, Chiu YH, Chang AY, Chen CH, Feng YC, Lin SH, Sheu YH, **Lin YF**. Racial differences in suicide deaths after cancer diagnosis: A SEER-based analysis of 2,336,949 patients. *2015 Palliative Care in Oncology Symposium*, Boston. Oct 9-10, 2015.
  17. Chen YW, Chang AY, Chen CH, Chiu YH, Feng YC, Lin SH, Sheu YH, **Lin YF**. Determinants for no definitive therapy for early-stage non-small cell lung cancer in U.S. population. *2015 ASCO Annual Meeting*, Chicago, Illinois. May 29-June 2, 2015.
  18. Lin L, **Lin YF**. Risperidone associated with non-thrombocytopenic purpura. *The 2nd World Congress of Asian Psychiatry*, Taipei. Nov 7-9, 2009.
  19. Lin SK, **Lin YF**. An exploratory study on the clinical usage of amisulpride in a psychiatric hospital in Taiwan. *2009 APA Annual Meeting* in San Francisco, CA, May 16-21, 2009.

## NON-RESEARCH PUBLICATIONS

1. Learning Cognitive-Behavior Therapy: an illustrated guide, by Wright J, Basco M, Thase M. (translation from English to Chinese; co-translator with Chen HC)

## SELECTED INVITED TALKS

1. Keynote speaker: Current advances in research and clinical applications of genetic testing in psychiatry. *Taiwanese Society of Psychiatry 2022 Spring Congress*. April 23, 2022
2. Invited speaker: Genetic analysis of quantitative traits in the Taiwan Biobank. *International Common Disease Alliance (ICDA) 2022 Virtual Scientific Plenary*. March 8, 2022

## TEACHING EXPERIENCE

### SCHOOL COURSES

- Psychiatry and the Society (2018-present)  
School of Medicine, National Yang Ming Chiao Tung University, Taiwan. (medical students)
- Clinical Psychopathology (2020-present)  
Institute of Behavioral Medicine, National Cheng Kung University, Taiwan. (graduate students)
- Special Topics on Psychological Treatments (2020-present)  
Institute of Behavioral Medicine, National Cheng Kung University, Taiwan. (graduate students)
- Clinical Psychopharmacology (2018-2019)  
Department of Psychology, National Cheng-Chi University, Taiwan. (graduate students)

### WORKSHOPS

- GWAS: Theory and Practice.  
2023 Genomic Epidemiology Workshop, Academia Sinica, Taiwan. Aug, 2023.
- GWAS: Theory and Practice.  
2019 Genomic Epidemiology Workshop, Academia Sinica, Taiwan. Aug, 2019.
- GWAS: Theory and Practice.  
2018 Genomic Epidemiology Workshop, Academia Sinica, Taiwan. Aug, 2018.

- GWAS: Theory and Practice.  
2017 Genomic Epidemiology Workshop, Academia Sinica, Taiwan. Aug, 2017.
- Advanced GWAS Data Analysis.  
2016 Genomic Epidemiology Workshop, Academia Sinica, Taiwan. Aug, 2016.
- GWAS Theory and Methodology.  
2015 Genomic Epidemiology Workshop, Academia Sinica, Taiwan. Aug, 2015.

## ADVISING

### POST-DOCTORAL RESEARCH FELLOWS

- Hsien-Yu Fan,, PhD (2023-present)
- Shu-Chin Lin, PhD (2020-present)
- Tzu-Ting Chen, PhD (2019-present)

### DOCTORAL STUDENTS

- Ding-Lien Wang (2023-present) , National Defense Medical Center (co-advising)
- Chueh-Chun Yeh (2022-present) ,College of Life Science, National Tsing Hua University

### THESIS COMMITTEE

- Ling-Hua Wang (2023), Institute of Epidemiology and Preventive Medicine, National Taiwan University
- Chun-Yun Su (2021), Department of Public Health, China Medical University
- Ya-Wen Jen (2021), Institute of Epidemiology and Preventive Medicine, National Taiwan University
- Wan-Rong Lin (2021), Institute of Epidemiology and Preventive Medicine, National Taiwan University
- Chia-Lin Hsu (2020), Department of Public Health, China Medical University
- Ying-Hsiu Shih (2020), Department of Public Health, China Medical University
- Tzu-Chen Yeh (2019), Department of Public Health, China Medical University

## HONORS AND AWARDS

- Dr. Paul Janssen Research Award, TSBPN 2022
- Teaching Excellence Awards, National Yang Ming Chiao Tung University 2020-2023
- Harvard Dissertation Completion Fellowship, Harvard University 2017-2018
- Rose Traveling Fellowship in Chronic Disease Epidemiology and Biostatistics, 2015-2016
- HSPH Central Grant, Harvard University 2013-2017
- Lewis Hackett Endowment Scholarship, Harvard University 2013
- The MOE Technologies Incubation Scholarship, Ministry of Education, Taiwan 2013-2016
- Delta Omega Honor Society Alpha Chapter, Johns Hopkins School of Public Health 2013

## RESEARCH GRANTS

### Principal Investigator (ACTIVE)

- Development of a clinical and genomic database and genome-wide association analysis for methamphetamine use disorders. (Jan. 2024- Dec. 2027)

Role on Project : Principal Investigator

Funder: National Health Research Institutes, Taiwan  
(NP-113-PP-09: \$850,000 )

● Using comprehensive healthcare and genome-wide genetic information to optimize the selection of antidepressant medications. (Aug. 2021- Jul. 2024)

Role on Project : Principal Investigator

Funder: Ministry of Science and Technology, Taiwan  
(MOST 110-2314-B-400 -028 -MY3 : \$3,420,000)

#### Principal Investigator (COMPLETED)

● Prognosis-associated factors of coerced addiction treatment for methamphetamine users. (Sep. 2019- Dec. 2023)

Role on Project : Principal Investigator

Funder: National Health Research Institutes, Taiwan  
(NP-108-PP-14: \$625,000 ; NP-109-PP-09: \$2,500,000; NP-110-PP-09: \$2,569,000;  
NP-111-PP-09: \$1,300,000)

● Dr. Kudo's Psychiatric Detective Agency. (Jul. 2021- Jun. 2023)

Role on Project : Principal Investigator

Funder: National Science and Technology Council, Taiwan  
(NSTC 110-2515-S-400-002-MY2 : \$7,500,000)

● A genome-wide polygenic approach to methamphetamine use and methamphetamine-induced psychosis: genetic etiology, cross-trait polygenic overlap, and potential causal relationships. (May 2020- Apr. 2021)

Role on Project : Principal Investigator

Funder: Ministry of Science and Technology, Taiwan  
(109-2314-B-400-017- : \$1,130,000)

● Association between methamphetamine use and leukocyte telomere length. (Jan. 2019- Dec. 2019)

Role on Project : Principal Investigator

Funder: Department of Health, Taipei City Government, Taiwan

#### Co-Principal Investigator (ACTIVE)

● Chip Innovation Program - New generation brain-computer interface system drives limb enhancement to improve physical and mental health for humans

晶創計畫—新世代腦神經介面系統驅動肢體提升人類身心健康 (Jan. 2024- Dec. 2024)

Role on Project : Co-Principal Investigator

Funder: Ministry of Economic Affairs, Taiwan



(\$3,000,000)

- All-Age Health Plan - Development and validation of digital psychotherapy applications for trauma and stress-related disorders

全齡健康計畫—創傷壓力之數位心理治療應用開發驗證 (Jan. 2024- Dec. 2024)

Role on Project : Co-Principal Investigator

Funder: Ministry of Economic Affairs, Taiwan

(\$200,000)

- Risk of neurodevelopmental disorders in offspring of addicted parents and its mechanisms

成癮父母對其子代發生神經發展疾患的風險與機轉研究 (Aug. 2023- Jul. 2023)

Role on Project : Co-Principal Investigator

Funder: National Science and Technology Council, Taiwan

(NSTC 112-2314-B-695-001: \$900,000)

- Core molecular and neural mechanisms of treatment-resistant depression (TRD) & novel treatment: combining clinical trials, animal experiments, gene and family follow-up research. (Sep. 2022- Aug. 2025)

Role on Project : Co-Principal Investigator

Funder: National Science and Technology Council, Taiwan

(NSTC 111-2314-B-075-085 -MY3: \$3,900,000)

- Differential patterns of corticostriatal dysconnectivity and disrupted white matter integrity between methamphetamine-induced psychosis and schizophrenia: a three-year follow-up study. (Aug. 2020- Jul. 2024)

Role on Project : Co-Principal Investigator

Funder: Ministry of Science and Technology, Taiwan

(MOST 109-2314-B-532 -004 -: \$1,050,000; 110-2314-B-532 -005 -MY3: \$3,596,000)

#### Principal Investigator (COMPLETED)

- The next generation of multi-indication TMS transcranial magnetic stimulation system. (Jan. 2023- Dec. 2023)

Role on Project : Co-Principal Investigator

Funder: Metal Industries Research & Development Centre, Taiwan

(12D6-NP01: \$2,000,000)

- Establishing a polygenic risk prediction model underlying disease susceptibility and drug response of the common epilepsies: Taiwan- specific and trans-ancestry genome-wide analyses. (Sep. 2022- Aug. 2023)

Funder: National Science and Technology Council, Taiwan

(NSTC 111-2314-B-002-299: \$1,000,000)

● Addiction biomarker combine optical fiber nanotechnology development. (Nov. 2020- Apr. 2022)

Role on Project : Co-Principal Investigator

Funder: Ministry of Science and Technology, Taiwan

(MOST 109-2622-B-400-003- : \$1,350,000)

● Improving quality of care in methadone treatment programs. (Jan. 2020- Dec. 2021)

Role on Project : Co-Principal Investigator

Funder: Ministry of Health and Welfare, Taiwan

(M09B8140: \$2,560,000; M1002047: \$2,700,000)

● Precision mental healthcare in alcohol addiction: systemic review and meta-analysis of alcohol dependence and treatments & estimate risk factors of alcoholics in a psychiatric center in Taiwan. (Sep. 2019- Aug. 2021)

Funder: Ministry of Science and Technology, Taiwan

(MOST 108-2314-B-695-002 : \$760,000)

● The investigation of longitudinal cognitive heterogeneity in bipolar disorder: the clinical risk factors and genetic variants model prediction. (Aug. 2018- Oct. 2019)

Funder: Ministry of Science and Technology, Taiwan

(MOST 107-2314-B-532-001\$750,000)

## SCIENTIFIC JOURNAL EDITOR AND AD-HOC REVIEWER

● Frontiers in Neuroscience

(Co-Editor of Special Issue on TMS mapping - applications and future directions)

● Neuroimage

(Guest Editor of Special Issue on Population Neuroscience)

● JAMA Psychiatry

● American Journal of Psychiatry

● Psychological Medicine

● World Journal of Biological Psychiatry

● European Psychiatry

● Nutrients

● Behavior Genetics

● Food and Function

● BMC Genomics

● Molecular Psychiatry

● British Journal of Psychiatry

● Translational Psychiatry

● Journal of Clinical Psychiatry

● Early Intervention in Psychiatry

● International Journal of Molecular Sciences

● Scientific Reports

● BMC Medicine

## LICENSURE AND CERTIFICATION

● Diplomate, National Board of Psychiatry, Taiwan

2008-present

● National Board of General Medicine, Taiwan

2004-present