

國立中興大學農藝系生物資訊統計研究室

Laboratory of Bioinformatics and Statistics

Department of Agronomy, NCHU



指導老師：高崇峰 (Dr. Chung-Feng Kao)

Education:

PhD in Mathematics & Statistics, Lancaster University, UK
MSc (by research) in Health Sciences, York University, UK
MSc in Statistics, National Taipei University, Taiwan

研究領域 (Research fields) & 研究室成員 (Lab members)

Data mining & ensemble
Big data analytic strategy
OnO data integration
Gene prioritization
Systems biology
GWAS (CV & RV)
Germplasm core collection
Information theory
Graphical model
Causal pie model
Developing R packages



大數據整合分析



耐寒試驗, GWAS



系統生物學



R package建置



種原表型歧異度調查



病害影像辨識



種原基因型核心收集



水稻智慧農業

研究成果 (Research results)

- Chen MH, **Kao CF***, Tsai SJ, Li CT, Lin WC, Hong CJ, Bai YM, Tu PC, Su TP. (2022). Corrigendum to "Treatment response to low-dose ketamine infusion for treatment-resistant depression: a gene-based genome-wide association study" [Genomics. 2021 Mar;113(2):507-514]. *Genomics* 114:470.
- Kao CF***, He SS, Wang CS, Lai ZY, Lin DG, Chen S. (2021). A modified Roger's distance algorithm for mixed quantitative-qualitative phenotypes to establish a core collection for Taiwanese vegetable soybeans. *Frontiers in Plant Science* 11:612106.
- Lai MC, Lai ZY, Jhan LH, Lai YS, **Kao CF***. (2021). Prioritization and Evaluation of Flooding Tolerance Genes in Soybean [Glycine max (L.) Merr.]. *Frontiers in Genetics* 11:612131.
- Chen MH, **Kao CF***, Tsai SJ, Li CT, Lin WC, Hong CJ, Bai YM, Tu PC, Su TP. (2021). Treatment response to low-dose ketamine infusion for treatment-resistant depression: a gene-based genome-wide association study. *Genomics* 113:507-514.
- Lee WC, Chen PY, **Kao CF***, Huang MC. (2021). Differences in serum orexin-A levels between the acute and subacute withdrawal phases in individuals who use methamphetamine. *Experimental and Clinical Psychopharmacology* 29(6):573-579.
- Kuo CY, Chen TY, Kao PH, Huang W, Cho CR, Lai YS, Yiang GT, **Kao CF***. (2021) Genetic pathways and functional subnetworks for the complex nature of bipolar disorder in genome-wide association study. *Frontiers in Molecular Neuroscience* 14:772584.
- Kao CF**, Kuo PH, Yu YWY, Yang AC, Lin E, Liu YL, Tsai SJ. (2020). Gene-based association analysis suggests association of *HTR2A* with antidepressant treatment response in depressed patients. *Frontiers in Pharmacology* 11:559601.
- Chu HL, Wang CS, He SS, **Kao CF*** (2019) The establishment of core collection of Edamame in Taiwan. *Crop, Environment & Bioinformatics* 16(2).