

NHRI Publication_Oct 2022

Center for Neuropsychiatric Research

1. Liao, SF; Su, CY; Su, MH; Chen, CY; Chen, CY; Lin, YF; Pan, YJ; Hsiao, PC; Chen, PC; Huang, YT; Wu, CS; Wang, SH. [Associations of polygenic risks, depression, and obesity-related traits in Taiwan Biobank](#). Journal of Affective Disorders. 2023 Jan 1; 320: 397-403.
2. Kuo, SC; Fan, B; Zhu, H; Wu, MH; Lee, FJ; Cheng, YC; Wu, HY; Hsu, YT; Hsiung, CA; Wu, SI; Chen, WJ; Chiou, HY; Sytwu, HK; Tsou, HH. [Contribution of testing strategies and contact tracing towards COVID-19 outbreaks control: A mathematical modeling study](#). Tropical Medicine and Infectious Disease. 2022 Nov; 7(11): Article number 376.
3. Zhou, W; Kanai, M; Wu, KHH; Rasheed, H; Tsuo, K; Hirbo, JB; Wang, Y; Bhattacharya, A; Zhao, H; Namba, S; Surakka, I; Wolford, BN; Lo Faro, V; Lopera-Maya, EA; Läll, K; Favé, MJ; Partanen, JJ; et al. [Global biobank meta-analysis initiative: Powering genetic discovery across human disease](#). Cell Genomics. 2022 Oct 12; 2(10): Article number 100192.

Institute of Biomedical Engineering and Nanomedicine

1. Jakfar, S; Lin, TC; Chen, ZY; Yang, IH; Gani, BA; Ningsih, DS; Kusuma, H; Chang, CT; Lin, FH. [A polysaccharide isolated from the herb bletilla striata combined with methylcellulose to form a hydrogel via self-assembly as a wound dressing](#). International Journal of Molecular Sciences. 2022 Oct 10; 23(19): Article number 1201.
2. Laiman, V; Lo, YC; Chen, HC; Yuan, TH; Hsiao, TC; Chen, JK; Chang, CW; Lin, TC; Li, SJ; Chen, YY; Heriyanto, DS; Chung, KF; Chuang, KJ; et al. [Effects of antibiotics and metals on lung and intestinal microbiome dysbiosis after sub-chronic lower-level exposure of air pollution in ageing rats](#). Ecotoxicology and Environmental Safety. 2022 Nov; 246: Article number 114164.
3. Chan, H; Chang, HY; Lin, WL; Chen, GS. [Large-volume focused-ultrasound mild hyperthermia for improving blood-brain tumor barrier permeability application](#). Pharmaceutics. 2022 Sep 22; 14(10): Article number 2012.

4. Liao, WN; You, MS; Ulhaq, ZS; Li, JP; Jiang, YJ; Chen, JK; Tse, WKF. [Micro-CT analysis reveals the changes in bone mineral density in zebrafish craniofacial skeleton with age.](#) Journal of Anatomy. 2022 Oct 18; Article in Press.
5. Tezcan, T; Hsu, CH. [Nanotechnology in healthcare: Nanoparticles for diagnostic and therapy.](#) Biotechnology in Healthcare, Volume 1: Technologies and Innovations. 2022 Apr 1: 55-69.
6. Hsu, JY; Lin, HY; Yang, YP. [Oral squamous cell carcinoma metastasizing to the heart: A case report from Taiwan.](#) Cancer Management and Research. 2022 Oct 6; 14: 3063-3070.
7. Yu, YS; Hsu, CH; Cheng, PH; Wu, KCW; Liu, CH. [Poly\(acrylic acid\)-grafted metal-organic framework carrying Mg ions for bone repair.](#) Materials Chemistry and Physics. 2022 Dec 1; 292: Article number 126840.
8. Hsu, FR; Dai, ST; Chou, CM; Huang, SY. [The application of artificial intelligence to support biliary atresia screening by ultrasound images: A study based on deep learning models.](#) PLoS ONE. 2022 Oct 19; 17(10): Article number e0276278.
9. Liao, FH; Yao, CN; Chen, SP; Wu, TH; Lin, SY. [Transdermal delivery of succinate accelerates energy dissipation of brown adipocytes to reduce remote fat accumulation.](#) Molecular Pharmaceutics. 2022 Oct 25; 19(11): 4299-4310.

Institute of Biotechnology and Pharmaceutical Research

1. Wang, YS; Yeh, TK; Chang, WC; Liou, JP; Liu, YM; Huang, WC. [2,6-Difluorobenzamide derivatives as store-operated calcium channel \(SOC\) inhibitors.](#) European Journal of Medicinal Chemistry. 2022 Dec 5; 243: Article number 114773.
2. Lin, HL; Chiu, YW; Wang, CC; Tung, CW. [Computational prediction of Calu-3-based in vitro pulmonary permeability of chemicals.](#) Regulatory Toxicology and Pharmacology. 2022 Nov; 135: Article number 105265.
3. Kan, HL; Tung, CW; Chang, SE; Lin, YC. [In silico prediction of parkinsonian motor deficits-related neurotoxicants based on the adverse outcome pathway concept.](#) Archives of Toxicology. 2022 Dec; 96(12): 3305-3314.
4. Yeh, KC; Lee, CJ; Song, JS; Wu, CH; Yeh, TK; Wu, SH; Hsieh, TC; Chen, YT; Tseng, HY; Huang, CL; Chen, CT; Jan, JJ; Chou, MC; Shia, KS; Chiang, KH. [Protective effect of CXCR4](#)

- [antagonist DBPR807 against ischemia-reperfusion injury in a rat and porcine model of myocardial infarction: Potential adjunctive therapy for percutaneous coronary intervention.](#) International Journal of Molecular Sciences. 2022 Oct 3; 23(19): Article number 11730.
5. Wang, SS; Wang, CC; Tung, CW. [SkinSensPred as a promising in silico tool for integrated testing strategy on skin sensitization.](#) International Journal of Environmental Research and Public Health. 2022 Nov 3; 19(19): Article number 12856.

Institute of Cellular and Systems Medicine

1. Hsiao, PJ; Hsiao, CJ; Tsai, FR; Hou, YL; Chiu, CC; Chiang, WF; Wu, KL; Li, YK; Lin, C; Chan, JS; Chang, CW; Chu, CM. [From bench to bedside: Clinical and biomedical investigations on hepatitis C virus \(HCV\) genotypes and risk factors for albuminuria.](#) Bioengineering. 2022 Sep 27; 9(10): Article number 509.
2. Yang, YH; Hsieh, SW; Chang, HW; Sung, JL; Chuu, CP; Yen, CW; Hour, TC. [Gamma frequency inhibits the secretion and aggregation of amyloid-beta and decreases the phosphorylation of mTOR and Tau proteins in vitro.](#) Journal of Alzheimer's Disease. 2022 Nov 8; 90(2): 917-928.
3. Pal, A; Kaswan, K; Barman, SR; Lin, YZ; Chung, JH; Sharma, MK; Liu, KL; Chen, BH; Wu, CC; Lee, S; Choi, D; Lin, ZH. [Microfluidic nanodevices for drug sensing and screening applications.](#) Biosensors and Bioelectronics. 2023 Jan 1; 219: Article number 114783.
4. Hour, TC; Vo, TCT; Chuu, CP; Chang, HW; Su, YF; Chen, CH; Chen, YK. [The promotion of migration and myogenic differentiation in skeletal muscle cells by quercetin and underlying mechanisms.](#) Nutrients. 2022 Oct; 14(19): Article number 4106.

Institute of Molecular and Genomic Medicine

1. Lin, TY; Lee, YL; Wu, KL; Yang, MC; Huang, CN; Fu, CM; Huang, LM; Chang, LY; Lin, MT; Liu, HH. [Cross-protective humoral immunity to coronaviruses from SARS coronavirus 2 - naïve sera of children with Kawasaki disease.](#) Clinical Microbiology and Infection. 2022 Oct 1; Article in Press.

2. Chiu, YJ; Weng, HY; Lin, YY; Lin, YF; Yeh, YC; Perng, CK; Ma, H; Tsai, SF; Chou, TY. [Genomic profiling with whole-exome sequencing revealed distinct mutations and novel pathways in Asian melanoma](#). Journal of Dermatology. 2022 Oct 2; Article in Press.
3. Liao, WN; You, MS; Ulhaq, ZS; Li, JP; Jiang, YJ; Chen, JK; Tse, WKF. [Micro-CT analysis reveals the changes in bone mineral density in zebrafish craniofacial skeleton with age](#). Journal of Anatomy. 2022 Oct 18; Article in Press.
4. Hsu, PW; Liao, PC; Kao, YH; Lin, XY; Chien, RN; Yeh, CT; Lai, CC; Shyu, YC; Lin, CL. [The mutation hotspots at UGT1A locus may be associated with gilbert's syndrome affecting the Taiwanese population](#). International Journal of Molecular Sciences. 2022 Oct 21; 23(20): Article number 12709.
5. Hou, CY; Ma, CY; Lin, YJ; Huang, CL; Wang, HD; Yuh, CH. [WNK1-OSR1 signaling regulates angiogenesis-mediated metastasis towards developing a combinatorial anti-cancer strategy](#). International Journal of Molecular Sciences. 2022 Oct 11; 23(20): Article number 12100

Institute of Population Health Sciences

1. Yengo, L; Vedantam, S; Marouli, E; Sidorenko, J; Bartell, E; Sakaue, S; Graff, M; Eliassen, AU; Jiang, Y; Raghavan, S; Miao, J; et al. [A saturated map of common genetic variants associated with human height](#). Nature. 2022 Oct 12; 610(7933): 704-712.
2. Liao, CW; Wei, CF; Chen, MH; Hsieh, WS; Lin, CC; Chen, PC. [Association between maternal shift work during pregnancy child overweight and metabolic outcomes in early childhood](#). Frontiers in Public Health. 2022 Sep 30; 10: Article number 1006332.
3. Chien, YL; Wu, CS; Chang, YC; Cheong, ML; Yao, TC; Tsai, HJ. [Associations between parental psychiatric disorders and autism spectrum disorder in the offspring](#). Autism Research. 2022 Oct 17; Article in Press.
4. Kuo, SC; Fan, B; Zhu, H; Wu, MH; Lee, FJ; Cheng, YC; Wu, HY; Hsu, YT; Hsiung, CA; Wu, SI; Chen, WJ; Chiou, HY; Sytwu, HK; Tsou, HH. [Contribution of testing strategies and contact tracing towards COVID-19 outbreaks control: A mathematical modeling study](#). Tropical Medicine and Infectious Disease. 2022 Nov; 7(11): Article number 376.

5. Su, PC; Zheng, CM; Chen, CC; Chiu, LY; Chang, HY; Tsai, MH; Liao, CT; Kao, CC; Hsu, YH; Shen, CC; Hsu, CC; Wu, MS; Lin, YC. [Effect of dialysis modalities on all-cause mortality and cardiovascular mortality in end-stage kidney disease: A Taiwan Renal Registry Data System \(TWRDS\) 2005 – 2012 study](#). Journal of Personalized Medicine. 2022 Oct 14; 12(10): Article number 1715.
6. Lee, SH; Du, ZY; Tseng, WC; Lin, WY; Chen, MH; Lin, CC; Liang, HJ; Wen, HJ; Guo, YL; Chen, PC; Lin, CY. [Identification of serum metabolic signatures of environmental-leveled phthalate in the Taiwanese child population using NMR-based metabolomics](#). Environmental Pollution. 2023 Jan 1; 316(Part 1): Article number 120454.
7. Yen, FS; Wei, JC; Shih, YH; Hsu, CY; Hsu, CC; Hwu, CM. [Metformin use before influenza vaccination may lower the risks of influenza and related complications](#). Vaccines (Basel). 2022 Oct 19; 10(10): Article number 1752.
8. Huang, MC; Hung, SC; Tai, TH; Lin, TY; Chang, CI; Hsu, CC. [Using a short food frequency questionnaire to evaluate macronutrients, fiber, phosphorus, potassium, and calcium in adults with stages 3-5 chronic kidney disease](#). International Journal of Environmental Research and Public Health. 2022 Sep 22; 19(19): Article number 11998.
9. Selvaraj, MS; Li, X; Li, Z; Pampana, A; Zhang, DY; Park, J; Aslibekyan, S; Bis, JC; Brody, JA; Cade, BE; Chuang, LM; Chung, RH; Curran, JE; et al. [Whole genome sequence analysis of blood lipid levels in >66,000 individuals](#). Nature Communications. 2022 Oct 11; 13: Article number 5995.

National Center for Geriatrics and Welfare Research

1. Chien, YL; Wu, CS; Chang, YC; Cheong, ML; Yao, TC; Tsai, HJ. [Associations between parental psychiatric disorders and autism spectrum disorder in the offspring](#). Autism Research. 2022 Oct 17; Article in Press.
2. Liao, SF; Su, CY; Su, MH; Chen, CY; Chen, CY; Lin, YF; Pan, YJ; Hsiao, PC; Chen, PC; Huang, YT; Wu, CS; Wang, SH. [Associations of polygenic risks, depression, and obesity-related traits in Taiwan Biobank](#). Journal of Affective Disorders. 2023 Jan 1; 320: 397-403.

3. Yen, FS; Wei, JC; Shih, YH; Hsu, CY; Hsu, CC; Hwu, CM. [Metformin use before influenza vaccination may lower the risks of influenza and related complications](#). Vaccines (Basel). 2022 Oct 19; 10(10): Article number 1752.
4. 傅紹齊; 傅紹懷; 王貞予. [使用藥物治療長照中心住民骨質疏鬆所遇到的困難](#). 中華民國骨質疏鬆症學會會訊. 2022 Jul; 13(3): 27-30.
5. 傅紹懷; 李銘宗; 楊榮森; 李中一; 王貞予. [長照住民之骨折風險---以骨折風險評估工具 FRAX 評估](#). 中華民國骨質疏鬆症學會會訊. 2022 Jul; 13(3): 6-9.
6. 傅紹懷; 李銘宗; 楊榮森; 李中一; 王貞予. [長照住民之骨質疏鬆治療效果](#). 中華民國骨質疏鬆症學會會訊. 2022 Jul; 13(3): 18-21.
7. 傅紹懷; 陳弘哲; 李銘宗; 陳合旻; 吳至行; 李中一; 王貞予. [長照住民骨密度檢查之骨質疏鬆盛行率](#). 中華民國骨質疏鬆症學會會訊. 2022 Jul; 13(3): 14-17.
8. 傅紹懷; 李銘宗; 楊榮森; 李中一; 王貞予. [長照住民鈣片、維他命 D、及骨質疏鬆治療狀況](#). 中華民國骨質疏鬆症學會會訊. 2022 Jul; 13(3): 10-13.
9. 傅紹懷; 陳弘哲; 嚴竑寬; 吳至行; 陳合旻; 李中一; 王貞予. [骨質疏鬆篩檢問卷篩檢長照住民骨質疏鬆之效度](#). 中華民國骨質疏鬆症學會會訊. 2022 Jul; 13(3): 22-26.

National Institute of Cancer Research

1. Lu, TH; Chiang, NJ; Tsai, YC; Gopinathan, P; Huang, CJ; Chang, JL; Tu, HC; Shan, YS; Hung, SC; Lee, GB. [An integrated microfluidic system for cholangiocarcinoma diagnosis from bile by using specific affinity probes](#). Sensors and Actuators B-Chemical. 2022 Dec 15; 373: Article number 132724.
2. Wang, HC; Shih, HY; Wu, CC; Chen, LT; Luo, CW; Liu, YC; Du, JS; Huang, MC; Su, YY; Chen, HD; Hsiao, HH; Moi, SH; Pan, MR. [Clustering of chromatin remodeling enzymes predicts prognosis and clinical benefit of therapeutic strategy in pancreatic cancer](#). International Journal of Medical Sciences. 2022 Sep 21; 19(10): 1615-1627.
3. Chen, HP; Chen, CI; Liu, KW; Chen, TJ; Tian, YF; Kuo, YH; Li, WS; Tsai, HH; Wu, LC; Yeh, CF; Li, CF; Chou, CL; Lai, HY. [High SLC28A2 expression endows an inferior survival for rectal cancer patients managed by neoadjuvant CCRT](#). Pathology, Research and Practice. 2022 Nov; 239: Article number 154158.

4. Geyer, CE, Jr.; Garber, JE; Gelber, RD; Yothers, G; Taboada, M; Ross, L; Rastogi, P; Cui, K; Arahmani, A; Aktan, G; Armstrong, AC; et al. [Overall survival in the OlympiA phase III trial of adjuvant olaparib in patients with germline pathogenic variants in BRCA1/2 and high risk, early breast cancer](#). Annals of Oncology. 2022 Oct 10; Article in Press.
5. Chen, YY; Hsueh, SW; Yang, SH; Chiu, SC; Chiang, NJ; Chiu, TJ; Li, CP; Bai, LY; Chiu, CF; Chuang, SC; Shan, YS; Chan, DCA; Chen, LT; et al. [Predictive value of albumin combined with neutrophil-to-lymphocyte ratio for efficacy and safety profiles in patients with pancreatic ductal adenocarcinoma receiving liposomal irinotecan plus 5-fluorouracil and leucovorin](#). American Journal of Cancer Research. 2022 Sep 15; 12(9): 4267-4278.
6. Zakaria, SS; Ramanathan, A; Mat Ripen, Z; Ghani, WMN; Yang, YH; Vincent-Chong, VK; Ismail, SM. [Prognostic abilities of pre- and post-treatment inflammatory markers in oral squamous cell carcinoma: Stepwise modelling](#). Medicina. 2022 Oct 10; 58(10): Article number 1426.
7. Li, YL; Hung, WC. [Reprogramming of sentinel lymph node microenvironment during tumor metastasis](#). Journal of Biomedical Science. 2022 Oct 20; 29: Article number 84.
8. Chou, CL; Chen, TJ; Li, WS; Lee, SW; Yang, CC; Tian, YF; Lin, CY; He, HL; Wu, HC; Shiue, YL; Li, CF; Kuo, YH. [Upregulated ubiquitin D is a favorable prognostic indicator for rectal cancer patients undergoing preoperative concurrent chemoradiotherapy](#). OncoTargets and Therapy. 2022 Oct 11; 15: 1171-1181.

National Institute of Environmental Health Sciences

1. Wen, HJ; Wang, SL; Li, MC; Guo, YL. [Aspergillus sensitization associated with current asthma in children: NHANES 2005-2006](#). Epidemiology and health. 2022 Oct 28; Article number e2022099.
2. Liao, CW; Wei, CF; Chen, MH; Hsieh, WS; Lin, CC; Chen, PC. [Association between maternal shift work during pregnancy child overweight and metabolic outcomes in early childhood](#). Frontiers in Public Health. 2022 Sep 30; 10: Article number 1006332.
3. Liu, C; Cai, J; Chen, R; Sera, F; Guo, Y; Tong, S; Li, S; Lavigne, E; Correa, PM; Ortega, NV; Orru, H; Maasikmets, M; et al. [Coarse particulate air pollution and daily mortality: A global](#)

- [study in 205 cities](#). American Journal of Respiratory and Critical Care Medicine. 2022 Sep 1; 206(8): 999-1007.
4. Teng, KW; Hsieh, KS; Hung, JS; Wang, CJ; Liao, EC; Chen, PC; Lin, YH; Wu, DY; Lin, CH; Wang, WC; Chan, HL; Huang, SK; Kao, MC. [Helicobacter pylori employs a general protein glycosylation system for the modification of outer membrane adhesins](#). Gut Microbes. 2022 Oct 7; 14(1): Article number 2130650.
 5. Tung, NT; Lin, SY; Liu, WT; Kuan, YC; Wu, CD; Xuan Thao, HN; Dung, HB; Chung Thuy, TP; Chuang, HC. [Higher particulate matter deposition in alveolar region could accelerate body fat accumulation in obstructive sleep apnea](#). ACS Environmental Au. 2022 Sep 23; Article in Press.
 6. Lee, SH; Du, ZY; Tseng, WC; Lin, WY; Chen, MH; Lin, CC; Liang, HJ; Wen, HJ; Guo, YL; Chen, PC; Lin, CY. [Identification of serum metabolic signatures of environmental-leveled phthalate in the Taiwanese child population using NMR-based metabolomics](#). Environmental Pollution. 2023 Jan 1; 316(Part 1): Article number 120454.
 7. Yang, ZY; Chen, WL; Wu, WT; Lai, CH; Ho, CL; Wang, CC. [Return to work and mortality in breast cancer survivors: A 11-year longitudinal study](#). International Journal of Environmental Research and Public Health. 2022 Nov 3; 19(21): Article number 14418.
 8. Lin, YJ; Shih, TS; Wu, WT; Guo, YL. [The association of job fatigue with mental disorders among bus drivers](#). Scandinavian Journal of Work, Environment, and Health. 2022 Oct 20; Article in Press.

National Institute of Infectious Diseases and Vaccinology

1. Chiang, TT; Huang, TW; Sun, JR; Kuo, SC; Cheng, A; Liu, CP; Liu, YM; Yang, YS; Chen, TL; Lee, YT; Wang, YC. [Biofilm formation is not an independent risk factor for mortality in patients with Acinetobacter baumannii bacteremia](#). Frontiers in Cellular and Infection Microbiology. 2022 Sep 16; 12: Article number 964539.
2. Kuo, SC; Fan, B; Zhu, H; Wu, MH; Lee, FJ; Cheng, YC; Wu, HY; Hsu, YT; Hsiung, CA; Wu, SI; Chen, WJ; Chiou, HY; Sytwu, HK; Tsou, HH. [Contribution of testing strategies and](#)

- [contact tracing towards COVID-19 outbreaks control: A mathematical modeling study.](#) Tropical Medicine and Infectious Disease. 2022 Nov; 7(11): Article number 376.
3. Cheng, D; Chiu, YW; Huang, SW; Lien, YY; Chang, CL; Tsai, HP; Wang, YF; Wang, JR. [Genetic and cross neutralization analyses of coxsackievirus A16 circulating in Taiwan from 1998 to 2021 suggest dominant genotype B1 can serve as vaccine candidate.](#) Viruses. 2022 Oct 20; 14(10): Article number 2306.
 4. Tsai, YH; Moura, A; Gu, ZQ; Chang, JH; Liao, YS; Teng, RH; Tseng, KY; Chang, DL; Liu, WR; Huang, YT; Leclercq, A; Lo, HJ; Lecuit, M; Chiou, CS. [Genomic surveillance of listeria monocytogenes in Taiwan, 2014 to 2019.](#) Microbiology Spectrum. 2022 Oct 12; Article in Press.
 5. Yang, YS; Huang, TW; Huang, YC; Huang, WC; Hsu, SY; Wu, HC; Chen, FJ; Shang, HS; Sytwu, HK; Kuo, SC. [In vitro and in vivo efficacy of minocycline-based therapy for Elizabethkingia anophelis and the impact of reduced minocycline susceptibility.](#) International Journal of Antimicrobial Agents. 2022 Sep 29; Article in Press.
 6. Usher, JL; Sanchez-Martinez, A; Terriente-Felix, A; Chen, PL; Lee, JJ; Chen, CH; Whitworth, AJ. [Parkin drives pS65-Ub turnover independently of canonical autophagy in Drosophila.](#) EMBO Reports. 2022 Oct 17: Article number e202153552.

National Mosquito-Borne Diseases Control Research Center

1. Cheng, D; Chiu, YW; Huang, SW; Lien, YY; Chang, CL; Tsai, HP; Wang, YF; Wang, JR. [Genetic and cross neutralization analyses of coxsackievirus A16 circulating in Taiwan from 1998 to 2021 suggest dominant genotype B1 can serve as vaccine candidate.](#) Viruses. 2022 Oct 20; 14(10): Article number 2306.
2. Liu, WT; Chen, YJ; Chen, CC; Liao, KM; Tzeng, HY; Tu, WC. [Impact of temperature on infection with Japanese encephalitis virus of three potential urban vectors in Taiwan; Aedes albopictus, Armigeres subalbatus, and Culex quinquefasciatus.](#) Acta Tropica. 2023 Jan; 237: Article number 106726.

NHRI Graduate Student Program

1. Chen, HJ; Tani, J; Lin, CSY; Chang, TS; Lin, YC; Hsu, TW; Sung, JY. [Neuroplasticity of peripheral axonal properties after ischemic stroke](#). PLoS ONE. 2022 Oct 4; 17(10): Article number e0275450.
2. Hsu, JY; Lin, HY; Yang, YP. [Oral squamous cell carcinoma metastasizing to the heart: A case report from Taiwan](#). Cancer Management and Research. 2022 Oct 6; 14: 3063-3070.