

NHRI Publication_Mar 2022

Center for Neuropsychiatric Research

1. Chang, CE; Wang, J; Lin, YT; Chiu, CC; Hsieh, MH; Huang, MC; Lu, ML; Chen, HC; Chen, WJ; Kuo, PH. [Characterization of clinical features and comorbidities between bipolar affective disorder with and without depressive episodes](#). Psychological Medicine. 2022 Mar 24; Article in Press.
2. Ngwenya, TZ; Huang, N; Wang, IA; Chen, CY. [Urban-rural differences in depression literacy among high school teachers in the Kingdom of Eswatini](#). Journal of School Health. 2022 Mar 22; Article in Press.

Construction, Management & Service Center

1. Chien, YA; Lee, YH; Chang, YP; Lee, DC; Chow, CC. [Exploring the relationships among training needs, willingness to participate and job satisfaction in disaster nursing: The mediating effect of achievement motivation](#). Nurse Education in Practice. 2022 May; 61: Article number 103327.
2. Lee, JT; Lee, YH; Chang, YP. [Mindfulness stress management for female cancer survivors facing the uncertainty of disease progression: A randomized controlled study](#). International Journal of Environmental Research and Public Health. 2022 Apr 8; 19(8): Article number 4497.

Institute of Biomedical Engineering and Nanomedicine

1. Hsu, PY; Hu, TY; Kumar, SR; Wu, KCW; Lue, SJ. [Swelling-resistant, crosslinked polyvinyl alcohol membranes with high ZIF-8 nanofiller loadings as effective solid electrolytes for alkaline fuel cells](#). Nanomaterials. 2022 Mar 4; 12(5): Article number 865.
2. Lin, CT; Tian, YQ; Wang, YK; Do, TTN; Chang, YL; King, JT; Huang, KC; Liao, LD. [Effects of multisensory distractor interference on attentional driving](#). IEEE Transactions on Intelligent Transportation Systems. 2022 Mar 17; Article in Press.

3. Rodoplu, D; Chang, CS; Kao, CY; Hsu, CH. [A micro-pupil device for point-of-care testing of viable Escherichia coli in tap water](#). Microchemical Journal. 2022 Jul; 178: Article number 107390.
4. Yeh, CF; Juang, DS; Chen, YW; Rodoplu, D; Hsu, CH. [A portable controllable compressive stress device to monitor human breast cancer cell protrusions at single-cell resolution](#). Frontiers in Bioengineering and Biotechnology. 2022 Feb; 10: Article number 852318.

Institute of Biotechnology and Pharmaceutical Research

1. Tsai, CH; Chiu, TY; Chen, CT; Hsu, CY; Tsai, YR; Yeh, TK; Huang, KH; Tsou, LK. [Click chemistry and multicomponent reaction for linker diversification of zinc dipicolylamine-based drug conjugates](#). Frontiers in Chemistry. 2022 Feb 15; 9: Article number 822587.
2. Tangeda, V; Lo, YK; Babuharisankar, AP; Chou, HY; Kuo, CL; Kao, YH; Lee, AYL; Chang, JY. [Lon upregulation contributes to cisplatin resistance by triggering NCLX-mediated mitochondrial Ca²⁺ release in cancer cells](#). Cell Death and Disease. 2022 Mar 16; 13(3): Article number 241.

Institute of Cellular and Systems Medicine

1. Yeh, TS; Meng, SW; Linz, L; Wu, CC. [Blood flow of dialysis arteriovenous graft compromised by a brachial artery-brachial vein fistula](#). Acta Cardiologica Sinica. 2022 Mar; 38(2): 214-216.
2. Liu, Y; Lin, SH; Chuang, WT; Dai, NT; Hsu, SH. [Biomimetic strain-stiffening in chitosan self-healing hydrogels](#). ACS Applied Materials AND Interfaces. 2022 Mar 23; Article in Press.
3. Lai, YL; Liu, CH; Wang, SC; Huang, SP; Cho, YC; Bao, BY; Su, CC; Yeh, HC; Lee, CH; Teng, PC; Chuu, CP; Chen, DN; Li, CY; Cheng, WC. [Identification of a steroid hormone-associated gene signature predicting the prognosis of prostate cancer through an Integrative bioinformatics analysis](#). Cancers. 2022 Mar 12; 14(6): Article number 1565.
4. Lin, NS; Lin, YY; Kao, YH; Chuu, CP; Wu, KA; Chan, JS; Hsiao, PJ. [Combination of multidisciplinary therapies successfully treated Refractory ventricular arrhythmia in a STEMI](#)

- [patient: Case report and literature review](#). Healthcare. 2022 Mar 10; 10(3): Article number 507.
5. Raines, LN; Zhao, HX; Wang, YZ; Chen, HY; Gallart-Ayala, H; Hsueh, PC; Cao, W; Koh, Y; Alamonte-Loya, A; Liu, PS; Ivanisevic, J; Lio, CWJ; Ho, PC; Huang, SCC. [PERK is a critical metabolic hub for immunosuppressive function in macrophages](#). Nature Immunology. 2022 Feb 28; 23(3): 431-445.
 6. Lin, CY; Wang, BJ; Fu, YK; Huo, C; Wang, YP; Chen, BC; Liu, WY; Tseng, JC; Jiang, SS; Sie, ZL; Tsai, KK; Yuh, CH; Wang, WC; Kung, HJ; Chuu, CP. [Inhibition of KDM4C/c-Myc/LDHA signalling axis suppresses prostate cancer metastasis via interference of glycolytic metabolism](#). Clinical and Translational Medicine. 2022 Mar; 12(3): Article number e764.
 7. Yen, BL; Liu, KJ; Sytwu, HK; Yen, ML. [Clinical implications of differential functional capacity between tissue-specific human mesenchymal stromal/stem cells](#). The FEBS Journal. 2022 Mar 18; Article in Press.
 8. Cheng, CK; Lin, X; Pu, Y; Tse, JKY; Wang, Y; Zhang, CL; Cao, X; Lau, CW; Huang, J; He, L; Luo, JY; Shih, YT; Wan, S; Ng, CF; Wang, L; Ma, RCW; Chiu, JJ; Chan, TF; Yu Tian, X; Huang, Y. [SOX4 is a novel phenotypic regulator of endothelial cells in atherosclerosis revealed by single-cell analysis](#). Journal of Advanced Research. 2022 Mar 1; Article in Press.

Institute of Molecular and Genomic Medicine

1. Wu, YL; Lin, H; Li, HF; Don, MJ; King, PC; Chen, HH. [Salvia miltiorrhiza extract and individual synthesized component derivatives induce activating-transcription-factor-3-mediated anti-obesity effects and attenuate obesity-induced metabolic disorder by suppressing C/EBPalpha in high-fat-induced obese mice](#). Cells. 2022 Mar 17; 11(6): Article number 1022.
2. Huang, YL; Shen, ZQ; Tsai, TF. [Enhancing CISD2 expression to retard liver aging](#). Aging. 2022 Feb 28; 14(4): 1594-1596.
3. Lin, TY; Yang, CH; Chou, HC; Cheng, CM; Liu, YW; Wang, JY; Huang, LR; Tsai, SF; Huang, SF; Chen, YR. [EGFR mutation-harboring lung cancer cells produce CLEC11A with](#)

- [endothelial trophic and tumor-promoting activities](#). *Cancers*. 2022 Mar 4; 14(5): Article number 1356.
4. Jiang, YJ; Fann, CS; Fuh, JL; Chung, MY; Huang, HY; Chu, KC; Wang, YF; Hsu, CL; Kao, LS; Chen, SP; Wang, SJ. [Genome-wide analysis identified novel susceptible genes of restless legs syndrome in migraineurs](#). *Journal of Headache and Pain*. 2022 Mar 29; 23: Article number 39.

Institute of Population Health Sciences

1. Chan, CH; Hu, YF; Chen, PF; Wu, IC; Chen, SA. [Exercise test for patients with long QT syndrome](#). *Acta Cardiologica Sinica*. 2022 Mar; 38(2): 124-133.
2. Ho, HE; Yeh, CJ; Wei, JC; Chu, WM; Lee, MC. [Multimorbidity patterns and their relationships with incident disability and frailty among older adults in Taiwan: A 16-year, population-based cohort study](#). *Archives of Gerontology and Geriatrics*. 2022 Jul; 101: Article number 104688.
3. Wang, SK; Lee, MC; Hung, CL; Chen, HH; Liao, CC; Chiu, YL. [Association between hypertriglyceridemic waist phenotype and hypogonadism in Taiwanese adult men](#). *PLoS ONE*. 2022 Mar 23; 17(3): Article number e0265629.
4. Ho, HE; Yeh, CJ; Wei, JCC; Chu, WM; Lee, MC. [Trends of multimorbidity patterns over 16 Years in older Taiwanese people and their relationship to mortality](#). *International Journal of Environmental Research and Public Health*. 2022 Mar 11; 19(6): Article number 3317.
5. Lee, SH; Yeh, CJ; Yang, CY; Wang, CY; Lee, MC. [Factors associated with attitudes toward aging among Taiwanese middle-aged and older adults: Based on population-representative national data](#). *International Journal of Environmental Research and Public Health*. 2022 Feb24; 19(5): Article number 2654.
6. Lin, YH; Lin, SH; Chen, IM. [The direct effect of cognitive behavioral therapy for insomnia on depression prevention and the mediation effect via insomnia remission](#). *JAMA Psychiatry*. 2022 Mar 16; Article in Press.
7. Lin, YH. [Mental stress-induced myocardial ischemia and cardiovascular events in patients with coronary heart disease](#). *JAMA*. 2022 Mar 15; 327(11): Article number 1091.

8. Tsai, CF; Huang, MH; Lee, JJ; Jhang, KM; Huang, LC; Huang, LK; Lee, WJ; Sung, PS; Liu, YC; Ouyang, WC; Cheng, CM; Hsu, CC; Fuh, JL. [Factors associated with burden among male caregivers for people with dementia](#). Journal of the Chinese Medical Association. 2022 Apr; 85(4): 462-468.
9. Sung, FC; Jong, YC; Muo, CH; Hsu, CC; Tsai, WC; Hsu, YH. [Statin therapy for hyperlipidemic patients with chronic kidney disease and end-stage renal Disease: A retrospective cohort study based on 925,418 adults in Taiwan](#). Frontiers in Pharmacology. 2022 Mar 04; 13: Article number 815882.
10. Yen, FS; Hsu, CC; Wei, JCC; Hou, MC; Hwu, CM. [Selection and warning of evidence-based antidiabetic medications for patients with chronic liver disease](#). Frontiers in Medicine. 2022 Feb 16; 9: Article number 839456.
11. Twu, CW; Lin, PJ; Tsou, HH; Liu, YC; Jiang, RS; Liang, KL; Lin, TY; Wang, WY; Lin, JC. [Maintenance metronomic chemotherapy for metastatic/recurrent nasopharyngeal carcinoma](#). Head & Neck. 2022 Apr 1; Article in Press.
12. Blanchard, P; Lee, AWM; Carmel, A; Wai Tong, N; Ma, J; Chan, ATC; Hong, RL; Chen, MY; Chen, L; Li, WF; Huang, PY; Kwong, DLW; et al. [Meta-analysis of chemotherapy in nasopharynx carcinoma \(MAC-NPC\): An update on 26 trials and 7080 patients](#). Clinical and Translational Radiation Oncology. 2022 Jan; 32: 59-68.
13. Luo, CM; Hsieh, MY; Cheng, CH; Chen, CH; Liao, MT; Chuang, SY; Wu, CC. [Association of frailty with thrombosis of hemodialysis vascular access: A prospective Taiwanese cohort study](#). American Journal of Kidney Diseases. 2022 Mar 5; Article in Press.
14. Liao, YC; Chen, FJ; Chuang, MC; Wu, HC; Ji, WC; Yu, GY; Huang, TS. [High-integrity sequencing of spike gene for SARS-CoV-2 variant determination](#). International Journal of Molecular Sciences. 2022 Mar 17; 23(6): Article number 3257.

National Center for Geriatrics and Welfare Research

1. Wang, HH; Chang, CM; Chang, SS; Yang, AC; Liu, YH; Liao, SC; Wu, CS. [Ten-year trends in depression care in Taiwan](#). Journal of the Formosan Medical Association. 2022 Feb 25; Article in Press.

2. Kao, YH; Hsu, CC; Yang, YH. [A nationwide survey of dementia prevalence in long-term care facilities in Taiwan](#). Journal of Clinical Medicine. 2022 Mar 11; 11(6): Article number 1554.
3. Yen, FS; Wei, JCC; Shih, YS; Hsu, CC; Hwu, CM. [Metformin use and the risk of bacterial pneumonia in patients with type 2 diabetes](#). Scientific Reports. 2022 Feb 28; 12: Article number 3270.

National Institute of Cancer Research

1. Chu, PY; Tzeng, YT; Tsui, KH; Chu, CY; Li, CJ. [Downregulation of ATP binding cassette subfamily a member 10 acts as a prognostic factor associated with immune infiltration in breast cancer](#). Aging. 2022 Mar 5; 14(5): 2252-2267.
2. Lin, TL; Wu, CY; Chen, YJ. [Fracture risks in patients with atopic dermatitis: A nationwide matched cohort study-reply](#). Annals of Allergy Asthma and Immunology. 2022 Feb; 128(2): 231.
3. Tseng, CF; Chen, LT; Wang, HD; Liu, YH; Shiah, SG. [Transcriptional suppression of Dicer by HOXB-AS3/EZH2 complex dictates sorafenib resistance and cancer stemness](#). Cancer Science. 2022 Mar 06; Article in Press.
4. Hsu, SW; Chang, JS; Chang, WL; Lin, FC; Chiu, NT. [Measuring distance from the incisors to the esophageal cancer by FDG PET/CT: Endoscopy as the reference](#). BMC Gastroenterology. 2022 Mar 17; 22: Article number 126.
5. Hung, YH; Lai, MD; Hung, WC; Chen, LT. [Semaphorin 4C promotes motility and immunosuppressive activity of cancer cells via CRMP3 and PD-L1](#). American Journal of Cancer Research. 2022 Feb 15; 12(2): 713-728.
6. Hung, YH; Hsu, SH; Hou, YC; Chu, PY; Su, YY; Shan, YS; Hung, WC; Chen, LT. [Semaphorin 6C suppresses proliferation of pancreatic cancer cells via inhibition of the AKT/GSK3/beta-catenin/cyclin D1 pathway](#). International Journal of Molecular Sciences. 2022 Feb 24; 23(5): Article number 2608.
7. Tseng, JS; Chiang, CJ; Chen, KC; Zheng, ZR; Yang, TY; Lee, WC; Hsu, KH; Huang, YH; Liu, TW; Hsia, JY; Chang, GC. [Association of smoking with patient characteristics and](#)

- [outcomes in small cell lung carcinoma, 2011-2018](#). JAMA Network Open. 2022 Mar 1; 5(3): Article number e224830.
8. Hsieh, CC; Su, YC; Jiang, KY; Ito, T; Li, TW; Kaku-Ito, Y; Cheng, ST; Chen, LT; Hwang, DY; Shen, CH. [TRPM1 promotes tumor progression in acral melanoma by activating the Ca²⁺/CaMKII \$\delta\$ /AKT pathway](#). Journal of Advanced Research. 2022 Mar 12; Article in Press.

National Institute of Environmental Health Sciences

1. Chen, HM; Wu, CF; Hsieh, CJ; Kuo, FC; Sun, CW; Wang, SL; Chen, ML; Wu, MT. [Relationship of maternal body weight and gestational diabetes mellitus with large-for-gestational-age babies at birth in Taiwan: The TMICS cohort](#). Taiwanese Journal of Obstetrics and Gynecology. 2022 Mar; 61(2): 234-242.
2. Cheng, Y; Huang, YL; Lee, LJH. [Explaining the invisibility of asbestos-related diseases in the Taiwan workers' compensation system](#). New Solutions. 2022 Mar 11; Article in Press.
3. Hsu, JF; Chang, WCW; Wen-Ying, WY; Liao, PC. [Exploration of long-term exposure markers for phthalate esters in human hair using liquid chromatography-tandem mass spectrometry](#). Analytica Chimica Acta. 2022 Apr 1; 1200: Article number 339610.
4. Lo, CC; Liu, WT; Lu, YH; Wu, D; Wu, CD; Chen, TC; Fang, YT; Lo, YC; Chen, YY; Kang, L; Tsai, CY; Lee, YL; Chuang, KJ; Ho, KF; Chang, TY; Chuang, HC. [Air pollution associated with cognitive decline by the mediating effects of sleep cycle disruption and changes in brain structure in adults](#). Environmental Science and Pollution Research. 2022 Mar 08; Article in Press.
5. Yu, CP; Weng, WC; Ramanpong, J; Wu, CD; Tsai, MJ; Spengler, JD. [Physiological and psychological responses to olfactory simulation by Taiwania \(Taiwania cryptomerioides\) essential oil and the influence of cognitive bias](#). Journal of Wood Science. 2022 Mar 03; 68: Article number 12.
6. Liu, WT; Wang, YH; Chang, LT; Wu, CD; Wu, DA; Tsai, CY; Lo, CC; Lo, K; Chung, KF; Chang, TY; Chuang, KJ; Lee, YL; Chuang, HC. [The impacts of ambient relative humidity](#)

- [and temperature on supine position-related obstructive sleep apnea in adults](#). Environmental Science and Pollution Research. 2022 Mar 03; Article in Press.
7. Tseng, CH. [Pioglitazone and prostate cancer risk in Taiwanese male patients with type 2 diabetes: A retrospective cohort study](#). World Journal of Mens Health. 2022 Mar 02; 40: Article number e37.
 8. Huang, CC; Pan, SC; Chin, WS; Chen, YC; Wu, CD; Hsu, CY; Lin, P; Chen, PC; Guo, YL. [Living proximity to petrochemical industries and the risk of attention-deficit/hyperactivity disorder in children](#). Environmental Research. 2022 Sep; 212(Part. A): Article number 113128.
 9. Ku, MS; Pan, WC; Huang, YT; Hsieh, WS; Hsu, YH; Chen, PC; Liu, CY. [Associations between prenatal exposure to perfluoroalkyl substances, hypomethylation of MEST imprinted gene and birth outcomes](#). Environmental Pollution. 2022 Jul 1; 304: Article number 119183.
 10. Chen, CJ; Chiu, WC; Tseng, YH; Lin, CM; Yang, HY; Yang, YH; Chen, PC. [Aristolochic acid and the risk of cancers in patients with type 2 diabetes: Nationwide population-based cohort study](#). Phytomedicine. 2022 May; 99: Article number 154023.
 11. Chen, WT; Kang, YN; Wang, TC; Lin, CW; Cheng, CY; Suk, FM; Hsu, CW; Huang, SK; Huang, WC. [Does ultrasound education improve anatomy learning? Effects of the Parallel Ultrasound Hands-on \(PUSH\) undergraduate medicine course](#). BMC Medical Education. 2022 Mar 27; 22: Article number 207.
 12. Hsu, CW; Suk, CW; Hsu, YP; Chang, JH; Liu, CT; Huang, SK; Hsu, SC. [Sphingosine-1-phosphate and CRP as potential combination biomarkers in discrimination of COPD with community-acquired pneumonia and acute exacerbation of COPD](#). Respiratory Research. 2022 Mar 20; 23: Article number 63.

National Institute of Infectious Diseases and Vaccinology

1. Lin, JH; Sung, WC; Mu, HW; Hung, DZ. [Local cytotoxic effects in cobra envenoming: A pilot study](#). Toxins. 2022 Feb 5; 14(2): Article number 122.

2. Chan, HW; Lo, YH; Chang, DY; Li, JJ; Chang, WY; Chen, CH; Chang, CH; Chen, CL; Wang, HE; Liu, RS; Wu, CY. [Radiometal-labeled chitosan microspheres as transarterial radioembolization agents against hepatocellular carcinoma](#). Gels. 2022 Mar 14; 8(3): Article number 180.
3. Huang, YL; Lin, TM; Wang, SY; Wang, JR. [The role of conserved arginine and proline residues in enterovirus VP1 protein](#). Journal of Microbiology, Immunology and Infection. 2022 Feb 17; Article in Press.
4. Huang, HJ; Yang, M; Chen, HW; Wang, S; Chang, CP; Ho, TS; Kao, YS; Tien, SM; Lin, HH; Chang, PC; Lai, YC; Hsiao, YP; Liu, YL; Chao, CH; Anderson, R; Yeh, TM; Lin, YS; Wan, SW. [A novel chimeric dengue vaccine candidate composed of consensus envelope protein domain III fused to C-terminal-modified NS1 protein](#). Vaccine. 2022 Apr; 40(15): 2299-2310.
5. Wu, WL; Chiang, CY; Lai, SC; Yu, CY; Huang, YL; Liao, HC; Liao, CL; Chen, HW; Liu, SJ. [Monoclonal antibody targeting the conserved region of the SARS-CoV-2 spike protein to overcome viral variants](#). JCI Insight. 2022 Mar 15; Article in Press.
6. Liu, EYM; Chen, JH; Lin, JC; Wang, CH; Fung, CP; Ding, YJ; Chang, FY; Siu, LK. [Cross-protection induced by highly conserved outer membrane proteins \(Omps\) in mice immunized with OmpC of Salmonella Typhi or OmpK36 of Klebsiella pneumoniae](#). Vaccine. 2022 Mar 21; Article in Press.
7. Tu, MG; Lin, CC; Chiang, YT; Zhou, ZL; Hsieh, LY; Chen, KT; Chen, YZ; Cheng, WC; Lo, HJ. [Distribution of yeast species and risk factors of oral colonization after oral-care education among the residents of nursing homes](#). Journal of Fungi. 2022 Mar 17; 8(3): Article number 310.

NHRI Graduate Student Program

1. Tsai, HY; Wang, YC; Liao, CA; Su, CY; Huang, CH; Chiu, MH; Yeh, YT. [Safety and the probiotic potential of Bifidobacterium animalis CP-9](#). Journal of Food Science. 2022 Mar 28; Article in Press.

2. Chiang, IT; Liu, YC; Liu, HS; Ali, AAA; Chou, SY; Hsu, TI; Hsu, FT. [Regorafenib reverses temozolomide-induced CXCL12/CXCR4 signaling and triggers apoptosis mechanism in glioblastoma](#). Neurotherapeutics : The Journal of the American Society for Experimental NeuroTherapeutics. 2022 Mar 10; Article in Press.
3. Yen, CC; Liu, YW; Chang, GRL; Lan, YW; Kao, YT; Cheng, SN; Chen, W; Chen, CM. [Therapeutic effects of kefir peptides on hemophilia-induced osteoporosis in mice with deficient coagulation factor VIII](#). Frontiers in Cell and Developmental Biology. 2022 Feb 18; 10: Article number 794198.
4. Tsai, JH; Yang, YH; Ho, PS; Wu, TN; Guo, YL; Chen, PC; Chuang, HY. [Incidence and risk of fatal vehicle crashes among professional drivers: A population-based study in Taiwan](#). Frontiers in Public Health. 2022 Mar 08; 10: Article number 849547.
5. Tsai, YT; Lo, WL; Chen, PY; Ko, CY; Chuang, JY; Kao, TJ; Yang, WB; Chang, KY; Hung, CY; Kikkawa, U; Chang, WC; Hsu, TI. [Reprogramming of arachidonate metabolism confers temozolomide resistance to glioblastoma through enhancing mitochondrial activity in fatty acid oxidation](#). Journal of Biomedical Science. 2022 Mar 25; 29: Article number 21.