

## NHRI Publication\_Aug 2022

### Center for Neuropsychiatric Research

1. Lu, ML; Ku, WC; Syifa, N; Hu, SC; Chou, CT; Wu, YH; Kuo, PH; Chen, CH; Chen, WJ; Wu, TH. [Developing a sensitive platform to measure 5-methyltetrahydrofolate in subjects with MTHFR and PON1 gene polymorphisms](#). Nutrients. 2022 Aug 13; 14(16): Article number 3320.
2. Lee, SL; Lee, MHH; Wu, KJ; Chiang, CW; Chang, YX; Fang, JD; Tung, HH; Kuo, LW; Wang, Y. [Post-ischemic protection of hepatocyte growth factor requires the type II transmembrane serine protease matriptase-A reciprocal regulation of the two for neuroprotection in stroke brain](#). FASEB Journal. 2022 Sep; 36(9): Article number e22494.

### Immunology Research Center

1. Chen, LK; Shih, CH; Chen, SS; Huang, ZX; Chang, YJ; Chen, LY; Chuang, TH; Chen, KB. [Ketamine promotes breast tumor growth in a mouse breast tumor model involving with high expression of miR-27b-3p and EGFR](#). Investigational New Drugs. 2022 Aug 09; Article in Press.

### Institute of Biomedical Engineering and Nanomedicine

1. Lee, SL; Lee, MHH; Wu, KJ; Chiang, CW; Chang, YX; Fang, JD; Tung, HH; Kuo, LW; Wang, Y. [Post-ischemic protection of hepatocyte growth factor requires the type II transmembrane serine protease matriptase-A reciprocal regulation of the two for neuroprotection in stroke brain](#). FASEB Journal. 2022 Sep; 36(9): Article number e22494.
2. Liang, RY; Zhang, KL; Chuang, MH; Lin, FH; Chen, TC; Lin, JN; Liang, YJ; Li, YA; Chen, CH; Wong, PLJ; Lin, SZ; Lin, PC. [A one-step, monolayer culture and chemical-based approach to generate insulin-producing cells from human adipose-derived stem cells to mitigate hyperglycemia in STZ-Induced diabetic rats](#). Cell Transplantation. 2022 Aug; Article in press.

3. Huang, CJ; Chou, PK; Sher, ZY; Chen, YR; Chen, TY; Dong, GC. [A tumor accelerator based on multicomponent bone scaffolds and cancer cell homing](#). *Polymers*. 2022 Aug 16; 14(16): Article number 3340.
4. Huang, SM; Wu, CY; Lin, YH; Hsieh, HH; Yang, HC; Chiu, SC; Peng, SL. [Differences in brain activity between normal and diabetic rats under isoflurane anesthesia: A resting-state functional MRI study](#). *BMC Medical Imaging*. 2022 Aug 4; 22: Article number 136.
5. Ivančić, F; Solovchuk, M. [Moving mesh strategy for simulating sliding and rolling dynamics of droplets on inclined surfaces with finite element method](#). *Computer Methods in Applied Mechanics and Engineering*. 2022 Oct 1; 400: Article number 115404.
6. Kuo, YW; Tsao, YC; Chien, WC; Huang, YM; Liao, LD. [Smart health monitoring and management system for organizations using radio-frequency identification \(RFID\) technology in hospitals or emergency applications](#). *Emergency Medicine International*. 2022 Aug 01; 2022: Article number 2177548.
7. Chen, TC; Tang, RC; Lin, JN; Kuo, WT; Yang, IH; Liang, YJ; Lin, FH. [The synthesis and evaluation of thiolated alginate as the barrier to block nutrient absorption on small intestine for body-weight control](#). *Bioengineering and Translational Medicine*. 2022 Aug 8; Article in Press.

### **Institute of Biotechnology and Pharmaceutical Research**

1. Hung, MC; Wang, WP; Chi, YH. [AKT phosphorylation as a predictive biomarker for PI3K/mTOR dual inhibition-induced proteolytic cleavage of mTOR companion proteins in small cell lung cancer](#). *Cell and Bioscience*. 2022 Aug; 12: Article number 122.
2. Chen, CM; Hsieh, HP. [Recent advances in total synthesis of natural products by masked ortho-benzoquinones](#). *Journal of the Chinese Chemical Society*. 2022 Aug 09; Article in Press.

### **Institute of Cellular and Systems Medicine**

1. Shyu, S; Fan, HT; Shang, ST; Chan, JS; Chiang, WF; Chiu, CC; Chen, MH; Shyu, HY; Hsiao, PJ. [Clinical manifestation, management, and outcomes in patients with COVID-19 vaccine-](#)

- [induced acute encephalitis: Two case reports and a literature review](#). Vaccines. 2022 Jul 31; 10(8): Article number 1230.
- Juan, LT; Lin, SH; Wong, CW; Jeng, US; Huang, CF; Hsu, SH. [Functionalized cellulose nanofibers as crosslinkers to produce chitosan self-healing hydrogel and shape memory cryogel](#). ACS Applied Materials and Interfaces. 2022 Aug 5; 14(32): 36353-36365.
  - Chiu, CF; Park, JM; Chen, HH; Mau, CZ; Chen, PS; Su, YH; Chen, HA; Liu, YR; Hsieh, TH; Chiu, CC; Hung, SW; Kuo, CY; Chen, YM; Chang, CF. [Organic cation transporter 2 activation enhances sensitivity to oxaliplatin in human pancreatic ductal adenocarcinoma](#). Biomedicine and Pharmacotherapy. 2022 Sep; 153: Article number 113520.
  - Park, JM; Peng, JM; Shen, YS; Lin, CY; Hsu, TW; Su, YH; Chen, HA; Saengboonmee, C; Chang, JS; Chiu, CF; Shan, YS. [Phosphomimetic Dicer S1016E triggers a switch to glutamine metabolism in gemcitabine-resistant pancreatic cancer](#). Molecular Metabolism. 2022 Aug 19; 65: Article number 101576.
  - Lee, SL; Lee, MHH; Wu, KJ; Chiang, CW; Chang, YX; Fang, JD; Tung, HH; Kuo, LW; Wang, Y. [Post-ischemic protection of hepatocyte growth factor requires the type II transmembrane serine protease matriptase-A reciprocal regulation of the two for neuroprotection in stroke brain](#). FASEB Journal. 2022 Sep; 36(9): Article number e22494.
  - Hsieh, MY; Cheng, CH; Chen, CH; Liao, MT; Lin, CC; Yang, TF; Chuang, SY; Wu, CC. [The association of long-term blood pressure variability with hemodialysis access thrombosis](#). Frontiers in Cardiovascular Medicine. 2022 Aug 04; 9: Article number 881454.

### **Institute of Molecular and Genomic Medicine**

- Chang, YW; Weng, HY; Tsai, SF; Fan, FS. [Disclosing an in-frame deletion of the titin gene as the possible predisposing factor of anthracycline-induced cardiomyopathy: A case report](#). International Journal of Molecular Sciences. 2022 Aug 17; 23(16): Article number 9261.

### **Institute of Population Health Sciences**

- Ramdas, S; Judd, J; Graham, SE; Kanoni, S; Wang, Y; Surakka, I; Wenz, B; Clarke, SL; Chesi, A; Wells, A; Bhatti, KF; et al. [A multi-layer functional genomic](#)

- [analysis to understand noncoding genetic variation in lipids](#). American Journal of Human Genetics. 2022 Aug 4; 109(8): 1366-1387.
2. Bai, LY; Li, CP; Shan, YS; Chuang, SC; Chen, JS; Chiang, NJ; Chen, YY; Tsou, HH; Chuang, MH; Chiu, CF; Liu, TW; Chen, LT. [A prospective phase II study of biweekly S-1, leucovorin, and gemcitabine in elderly patients with locally advanced or metastatic pancreatic adenocarcinoma – The Taiwan Cooperative Oncology Group T1217 study](#). European Journal of Cancer. 2022 Sep; 173: 123-132.
  3. Liu, CM; Hsieh, ME; Hu, YF; Wei, TY; Wu, IC; Chen, PF; Lin, YJ; Higa, S; Yagi, N; Chen, SA; Tseng, VS. [Artificial intelligence-enabled model for early detection of left ventricular hypertrophy and mortality prediction in young to middle-aged adults](#). Circulation-Cardiovascular Quality and Outcomes. 2022 Aug; 15(8): Article number e008360.
  4. Lan, YT; Pan, YC; Lin, YH. [Association between adolescents' problematic online behaviors and self-harm risk](#). Journal of Affective Disorders. 2022 Nov 15; 317: 46-51.
  5. Chen, CC; Wang, YH; Wu, CF; Hsieh, CJ; Wang, SL; Chen, ML; Tsai, HJ; Li, SS; Liu, CC; Tsai, YC; Hsieh, TJ; Wu, MT. [Benchmark dose in the presence of coexposure to melamine and diethylhexyl phthalate and urinary renal injury markers in pregnant women](#). Environmental Research. 2022 Dec; 215(Part 1): Article number 114187.
  6. Lee, HJ; Tsai, HJ; Huang, HY; Gau, CC; Ho, CH; Huang, JL; Yao, TC. [Cord blood IgE predicts allergic sensitization, elevation of exhaled nitric oxide, and asthma in schoolchildren](#). Pediatric Allergy and Immunology. 2022 Aug; 33(8): Article number e13838.
  7. Wang, S; Wen, CP; Li, W; Li, S; Sun, M; Xu, A; Tsai, MK; Chu, DT; Tsai, SP; Tu, H; Wu, X. [Development of a novel multi-dimensional measure of aging to predict mortality and morbidity in the prospective MJ cohort](#). Journals of Gerontology. Series A, Biological Sciences and Medical Sciences. 2022 Aug 3; Article in Press.
  8. Ho, CH; Gau, CC; Lee, WF; Fang, H; Lin, CH; Chu, CH; Huang, YS; Huang, YW; Huang, HY; Tsai, HJ; Yao, TC. [Early-life weight gain is associated with non-atopic asthma in childhood](#). World Allergy Organization Journal. 2022 Aug; 15(8): Article number 100672.
  9. Singuru, MMR; Liao, YC; Lin, GMH; Chen, WT; Lin, YH; To, CT; Liao, WC; Hsu, CH; Chuang, MC. [Engineered multivalent DNA capsules for multiplexed detection of](#)

- [genotoxics via versatile controlled release mechanisms](#). Biosensors and Bioelectronics. 2022 Nov; 216: Article number 114608.
10. Clark, CE; Warren, FC; Boddy, K; McDonagh, STJ; Moore, SF; Teresa Alzamora, M; Ramos Blanes, R; Chuang, SY; Criqui, MH; et al. [Higher arm versus lower arm systolic blood pressure and cardiovascular outcomes: A meta-analysis of individual participant data from the INTERPRESS-IPD collaboration](#). Hypertension. 2022 Aug 2; Article in Press.
  11. Yu, TM; Chuang, YW; Huang, ST; Huang, JA; Chen, CH; Chung, MC; Wu, CY; Chang, PY; Hsu, CC; Wu, MJ. [Risk of dementia after exposure to contrast media: A nationwide, population-based cohort study](#). Biomedicine. 2022 Aug 19; 10(8): Article number 2015.
  12. Hsieh, MY; Cheng, CH; Chen, CH; Liao, MT; Lin, CC; Yang, TF; Chuang, SY; Wu, CC. [The association of long-term blood pressure variability with hemodialysis access thrombosis](#). Frontiers in Cardiovascular Medicine. 2022 Aug 04; 9: Article number 881454.
  13. Wang, JS; Wu, YL; Ou, HY; Yang, YS; Hsu, CC; Hwu, CM. [Trends in all-cause mortality and major causes of death between 2007 and 2018 among patients with diabetes in Taiwan](#). Frontiers in Endocrinology. 2022 Aug 09; 13: Article number 984137.

## National Center for Geriatrics and Welfare Research

1. Chou, PH; Wang, SC; Wu, CS; Horikoshi, M; Ito, M. [A machine-learning model to predict suicide risk in Japan based on national survey data](#). Frontiers in Psychiatry. 2022 Aug 04; 13: Article number 918667.
2. Chen, HC; Wang, CY; Chen, HH; Liou, HH. [Cost-effectiveness of the add-on exenatide to conventional treatment in patients with Parkinson's disease when considering the coexisting effects of diabetes mellitus](#). PLoS ONE. 2022 Aug 11; 17(8): Article number e0269006.
3. Wang, SH; Wu, CS; Hsu, LY; Lin, MC; Chen, PC; Thompson, WK; Fan, CC. [Paternal age and 13 psychiatric disorders in the offspring: A population-based cohort study of 7 million children in Taiwan](#). Molecular Psychiatry. 2022 Aug 30; Article in Press.
4. Yang, JJ; Yen, HK; Li, CY; Chen, HJ; Liou, HH; Fu, SH; Wang, CY. [Ten existing osteoporosis prediction tools for the successful application of National Health Insurance-](#)

- [reimbursed anti-osteoporosis medications in long-term care residents in Taiwan](#). Journal of the Formosan Medical Association. 2022 Aug 27; Article in Press.
5. Wang, JS; Wu, YL; Ou, HY; Yang, YS; Hsu, CC; Hwu, CM. [Trends in all-cause mortality and major causes of death between 2007 and 2018 among patients with diabetes in Taiwan](#). Frontiers in Endocrinology. 2022 Aug 09; 13: Article number 984137.

## National Institute of Cancer Research

1. Bai, LY; Li, CP; Shan, YS; Chuang, SC; Chen, JS; Chiang, NJ; Chen, YY; Tsou, HH; Chuang, MH; Chiu, CF; Liu, TW; Chen, LT. [A prospective phase II study of biweekly S-1, leucovorin, and gemcitabine in elderly patients with locally advanced or metastatic pancreatic adenocarcinoma – The Taiwan Cooperative Oncology Group T1217 study](#). European Journal of Cancer. 2022 Sep; 173: 123-132.
2. Hsieh, CC; Hsu, SH; Lin, CY; Liaw, HJ; Li, TW; Jiang, KY; Chiang, NJ; Chen, SH; Lin, BW; Chen, PC; Chan, RH; Lin, PC; Yeh, YM; Shen, CH. [CHK2 activation contributes to the development of oxaliplatin resistance in colorectal cancer](#). British Journal of Cancer. 2022 Aug 23; Article in Press.
3. Chu, PY; Huang, WC; Tung, SL; Tsai, CY; Chen, CJ; Liu, YC; Lee, CW; Lin, YH; Lin, HY; Chen, CY; Yeh, CT; Lin, KH; Chi, HC. [IFITM3 promotes malignant progression, cancer stemness and chemoresistance of gastric cancer by targeting MET/AKT/FOXO3/c-MYC axis](#). Cell and Bioscience. 2022 Aug; 12: Article number 124.
4. Brose, M; Smit, J; Lin, CC; Tori, M; Bowles, D; Worden, F; Shen, DH; Huang, SM; Tsai, HJ; Alevizaki, M; Peeters, RP; Takahashi, S; et al. [Multi-kinase inhibitors for the treatment of asymptomatic radioactive Iodine-refractory differentiated thyroid cancer: Global, non-interventional study \(RIFTOS MKI\)](#). Thyroid. 2022 Aug 11; Article in Press.
5. Lai, IC; Liao, CH; Hu, MH; Chang, CL; Lai, GM; Chiou, TJ; Hsia, S; Tsai, WL; Lin, YY; Chuang, SE; Whang-Peng, J; Chen, HY; Yao, CJ. [Selenium yeast and fish oil combination diminishes cancer stem cell traits and reverses cisplatin resistance in A549 sphere cells](#). Nutrients. 2022 Aug 7; 14(15): Article number 3232.

## National Institute of Environmental Health Sciences

1. Chen, CC; Wang, YH; Wu, CF; Hsieh, CJ; Wang, SL; Chen, ML; Tsai, HJ; Li, SS; Liu, CC; Tsai, YC; Hsieh, TJ; Wu, MT. [Benchmark dose in the presence of coexposure to melamine and diethylhexyl phthalate and urinary renal injury markers in pregnant women.](#) Environmental Research. 2022 Dec; 215(Part 1): Article number 114187.
2. Lai, CC; Baskaran, R; Tsao, CY; Tuan, LH; Siow, PF; Palani, M; Lee, LJ; Liu, CM; Hwu, HG; Lee, LJ. [Chronic N-acetylcysteine treatment prevents amphetamine-induced hyperactivity in heterozygous disc1 mutant mice, a putative prodromal schizophrenia animal model.](#) International Journal of Molecular Sciences. 2022 Aug 20; 23(16): Article number 9419.
3. Chang, CK; Lin, YK; Lin, CW; Su, MW; Chu, HW; Wu, CD; Zeng, YT; Chang, BL. [Effects of long-term exposure to major outdoor air pollutants for the risk of chronic inflammatory airway diseases in adults with potential interaction detection in Taiwan Biobank.](#) Atmospheric Environment. 2022 Nov 1; 288: Article number 119296.
4. Tseng, CH. [Metformin's effects on varicocele, erectile dysfunction, infertility and prostate-related diseases: A retrospective cohort study.](#) Frontiers in Pharmacology. 2022 Jul 22; 13: Article number 799290.
5. Tsai, SS; Chen, CC; Yang, CY. [The impacts of reduction in ambient fine particulate \(PM\(2.5\)\) air pollution on life expectancy in Taiwan.](#) Journal of Toxicology and Environmental Health. Part A. 2022 Aug 22; Article in Press

## National Institute of Infectious Diseases and Vaccinology

1. Wang, HC; Wang, YC; Wu, CJ. [Phylogenetic characteristics of non-SARS human coronavirus in southern Taiwan, 2012-2013.](#) Biomedical Journal. 2022 Aug 11; Article in Press.
2. Lien, SC; Lu, CC; Shen, YS; Yang, YT; Wu, SR; Fang, CY; Chow, YH; Liao, CL; Chiang, JR; Liu, CC. [Separation and purification of highly infectious enterovirus A71 particles using a strong anion-exchange column.](#) Journal of Chromatography A. 2022 Sep 13; 1680: Article number 463427.

3. Ohka, S; Tan, SH; Ishiyama, E; Ogasawara, K; Hanasaka, T; Ishida, K; Hagiwara, K; Liu, CC; Chong, PC; Hanaki, KI; Schiavo, G. [The uncoating of EV71 in mature late endosomes requires CD-M6PR](#). *Biology Open*. 2022 Aug 5; Article in Press.

### **National Mosquito-Borne Diseases Control Research Center**

1. Ni, NT; Wu, SS; Liao, KM; Tu, WC; Lin, CF; Nai, YS. [Evaluation of the potential entomopathogenic fungi \*purpureocillium lilacinum\* and \*fusarium verticillioides\* for biological control of \*forcipomyia Taiwana\* \(Shiraki\)](#). *Journal of Fungi*. 2022 Aug 16; 8(8): Article number 861.
2. Tzeng, HY; Tsai, CL; Ting, LJ; Liao, KM; Tu, WC. [Molecular epidemiology of Akabane virus in Taiwan](#). *Veterinary Medicine and Science*. 2022 Aug 16; Article in Press.
3. Kuo, SW; Wu, PH; Wang, YH; Wang, YF; Liu, WL; Chen, CC. [Science museums as a platform for public engagement: Exhibiting the Wolbachia dengue fever prevention method](#). *Taiwan Journal of Public Health*. 2022 Apr 29; 41(2): 211-225.

### **NHRI Graduate Student Program**

1. Lin, HY; Lim, SW; Hsu, TI; Yang, WB; Huang, CC; Tsai, YT; Chang, WC; Ko, CY. [CCAAT/enhancer-binding protein delta regulates glioblastoma survival through catalase-mediated hydrogen peroxide clearance](#). *Oxidative Medicine and Cellular Longevity*. 2022 Aug 18; 2022: Article number 4081380.