

NHRI Publication_Jan 2022

Institute of Biomedical Engineering and Nanomedicine

1. Wang, CC; Wei, SC; Luo, SC. [Recent advances and biomedical applications of peptide-integrated conducting polymers](#). ACS Applied Bio Materials. 2022 Feb 4; Article in Press.
2. Kung, Y; Chen, KY; Liao, WH; Hsu, YH; Wu, CH; Hsiao, MY; Huang, APH; Chen, WS. [Facilitating drug delivery in the central nervous system by opening the blood-cerebrospinal fluid barrier with a single low energy shockwave pulse](#). Fluids and Barriers of the CNS. 2022 Jan 06; 19: Article number 3.
3. Chou, YD; Hwang, WS; Solovchuk, M; Siddheshwar, PG; Sheu, TWH; Chakraborty, S. [Weakly nonlinear stability analysis of salt-finger convection in a longitudinally infinite cavity](#). Physics of Fluids. 2022 Jan 20; 34: Article number 011908.
4. Hsu, YH; Huang, SM; Lin, SY; Yang, JJ; Tu, MC; Kuo, LW. [Prospective memory and default mode network functional connectivity in normal and pathological aging](#). Journal of Alzheimer's Disease. 2022 Feb 3; Article in Press.

Institute of Biotechnology and Pharmaceutical Research

1. Chi, YH; Wang, WP; Hung, MC; Liou, GG; Wang, JY; Chao, PHG. [Deformation of the nucleus by TGF beta 1 via the remodeling of nuclear envelope and histone isoforms](#). Epigenetics and Chromatin. 2022 Jan 04; 15: Article number 1.
2. Kung, YA; Chiang, HJ; Li, ML; Gong, YN; Chiu, HP; Hung, CT; Huang, PN; Huang, SY; Wang, PY; Hsu, TA; Brewer, G; Shih, SR. [Acyl-coenzyme a synthetase long-chain family member 4 is involved in viral replication organelle formation and facilitates virus replication via ferroptosis](#). mBio. 2022 Jan 18; 13(1): Article number e02717-21.
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4. Su, IJ; Hsu, CY; Shen, S; Chao, PK; Hsu, JTA; Hsueh, JT; Liang, JJ; Hsu, YT; Shie, FS. [The beneficial effects of combining anti-Abeta antibody NP106 and curcumin analog TML-6 on the treatment of Alzheimer' s disease in APP/PS1 mice.](#) International Journal of Molecular Sciences. 2022 Jan 5; 23(1): Article number 556.
5. Fan, CS; Chen, CC; Chen, LL; Chua, KV; Hung, HC; Hsu, JTA; Huang, TS. [Extracellular HSP90alpha induces MyD88 – IRAK complex-associated IKKalpha/Beta – NF- \$\kappa\$ B/IRF3 and JAK2/TYK2 – STAT-3 signaling in macrophages for tumor-promoting M2-polarization.](#) Cells. 2022 Jan 11; 11(2): Article number 229.
6. Lai, YL; Wang, KH; Hsieh, HP; Yen, WC. [Novel FLT3/AURK multikinase inhibitor is efficacious against sorafenib-refractory and sorafenib-resistant hepatocellular carcinoma.](#) Journal of Biomedical Science. 2022 Jan 21; 29: Article number 5.
7. Wang, CC; Liang, YC; Wang, SS; Lin, P; Tung, CW. [A machine learning-driven approach for prioritizing food contact chemicals of carcinogenic concern based on complementary in silico methods.](#) Food and Chemical Toxicology. 2022 Feb; 160: Article number 112802.

Institute of Cellular and Systems Medicine

1. Pan, TM; Wang, CW; Weng, WC; Lai, CC; Lu, YY; Wang, CY; Hsieh, IC; Wen, MS. [Rapid and label-free detection of the troponin in human serum by a TiN-based extended-gate field-effect transistor biosensor.](#) Biosensors and Bioelectronics. 2022 Apr 1; 201: Article number 113977.
2. Yeh, JK; Chen, CC; Liu, KH; Peng, CC; Lin, TA; Chang, YS; Wen, MS; Yeh, TS; Wang, CY. [Serum microRNA panels predict bariatric surgery outcomes.](#) Obesity. 2022 Feb; 30(2): 389-399.
3. Liao, MT; Luo, CM; Hsieh, MC; Hsieh, MY; Lin, CC; Chie, WC; Yang, TF; Wu, CC. [Stent grafts improved patency of ruptured hemodialysis vascular accesses.](#) Scientific Reports. 2022 Jan 07; 12: Article number 51.
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5. Chen, CH; Hsieh, YL; Chuang, SY; Su, FY; Wang, KT; Luo, CM; Meng, SW; Wu, CC. [The impact of frailty on the outcomes of hemodialysis vascular access](#). Acta Cardiologica Sinica. 2022 Jan; 38: 29-38.

Institute of Molecular and Genomic Medicine

1. Lee, YL; Liu, KM; Chang, HL; Liao, YC; Lin, JS; Kung, FY; Ho, CM; Lin, KH; Chen, YT. [The evolutionary trend and genomic features of an emerging lineage of elizabethkingia anophelis strains in Taiwan](#). Microbiology Spectrum. 2022 Jan 19; 10(1): Article number e01682-21.
2. Wu, YL; Li, HF; Chen, HH; Lin, H. [Emergent roles of circular RNAs in metabolism and metabolic disorders](#). International Journal of Molecular Sciences. 2022 Jan 18; 23(3): Article number 1032.
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5. Hu, HH; Jeng, WJ; Pan, MH; Luo, WS; Chang, CL; Huang, YT; Su, CY; Chiang, CT; Jen, CL; Chien, YC; Lu, SN; Wang, LY; et al. [Serum soluble programmed cell death 1 levels predict spontaneous functional cure in inactive carriers with chronic hepatitis B](#). Alimentary Pharmacology and Therapeutics. 2022 Jan 14; Article in Press.
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Institute of Population Health Sciences

1. Shuai, ML; Fu, YQ; Zhong, HL; Gou, WL; Jiang, ZL; Liang, YH; Miao, ZL; Xu, JJ; Huynh, T; Wahlqvist, ML; Chen, YM; Zheng, JS. [Mapping the human gut mycobiome in middle-aged and elderly adults: Multiomics insights and implications for host metabolic health](#). Gut. 2022 Jan 11; Article in Press.
2. Liao, CM; Kuo, WY; Kung, PT; Chuan, CH; Tsai, WC. [Epidemiological investigation of multiple sclerosis and related medical utilisation in Taiwan](#). Multiple Sclerosis Journal. 2022 Jan 25; Article in Press.
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4. Lin, YC; Liao, CT; Zheng, CM; Lin, MH; Hsu, CC; Hsu, YH; Wu, MS. [Clinical characteristics and outcomes of patients requiring incident dialysis in Taiwan](#). Journal of the Formosan Medical Association. 2022 Jan 26; Article in Press.
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8. Lee, CC; Hsu, CC; Lin, MH; Chen, KH; Wu, IW. [Hospitalization in patients with dialysis in Taiwan: A nationwide population-based observational study](#). Journal of the Formosan Medical Association. 2022 Jan 05; Article in Press.
9. Lee, JJ; Chang, JM; Yang, LJ; Hsu, CC; Lin, MH; Lin, MY. [Trends of treated hepatitis B, hepatitis C, and tuberculosis infection in long-term hemodialysis patients in Taiwan: A](#)

- [nationwide survey in 2010 – 2018](#). Journal of the Formosan Medical Association. 2022 Jan 05; Article in Press.
10. Lin, CJ; Chien, MH; Yang, MJ; Lin, MH; Hsu, CC; Chu, PL. [Trends of medication used in patients with pre-ESKD from 2010 to 2018 in Taiwan](#). Journal of the Formosan Medical Association. 2022 Jan 01; Article in Press.
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 13. Liu, CC; Wu, CF; Lee, YC; Huang, TY; Huang, ST; Wang, HS; Jhan, JH; Huang, SP; Li, CC; Juan, YS; Hsieh, TJ; Tsai, YC; Chen, CC; Wu, MT. [Genetic polymorphisms of MnSOD modify the impacts of environmental melamine on oxidative stress and early kidney injury in calcium urolithiasis patients](#). Antioxidants. 2022 Jan; 11: Article number 152.
 14. Gao, W; Wen, CP; Wu, A; Welch, HG. [Association of computed tomographic screening promotion with lung cancer overdiagnosis among Asian women](#). JAMA Internal Medicine. 2022 Jan 18; Article in Press.
 15. Wen, CP; Lee, YC; Sun, YT; Huang, CY; Tsai, CH; Chen, PL; Chang, WL; Yeh, PY; Wei, CY; Tsai, MJ; Sun, Y; Lin, CH; Lee, JT; Lai, TC; Lien, LM; et al. [Low-density lipoprotein cholesterol and mortality in patients with intracerebral hemorrhage in Taiwan](#). Frontiers in Neurology. 2022 Jan 17; 12: Article number 793471.
 16. Lan, KY; Liao, BY. [Epigenomic signatures on paralogous genes reveal underappreciated universality of active histone codes adopted across animals](#). Computational and Structural Biotechnology Journal. 2022 Jan; 20: 353-367.
 17. Chen, WT; Chi, NF; Cheng, HM; Ko, YT; Chuang, SY; Pan, WH; Chen, CH; Chung, CP; Wang, PN. [Associations between cerebral vasoreactivity and cognitive function in the](#)

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National Institute of Cancer Research

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2. Lee, YL; Lee, HA; Hsu, CY; Kung, HH; Chiu, HW. [SEMRES - A triple security protected blockchain based medical record exchange structure](#). Computer Methods and Programs in Biomedicine. 2022 Mar; 215: Article number 106595.
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7. Kang, YK; Chen, LT; Ryu, MH; Oh, DY; Oh, SC; Chung, HC; Lee, KW; Omori, T; Shitara, K; Sakuramoto, S; Chung, IJ; Yamaguchi, K; Kato, K; Sym, SJ; et al. [Nivolumab plus chemotherapy versus placebo plus chemotherapy in patients with HER2-negative, untreated, unresectable advanced or recurrent gastric or gastro-oesophageal junction cancer \(ATTRACTION-4\): A randomised, multicentre, double-blind, placebo-contr](#). Lancet Oncology. 2022 Feb; 23(2): 234-247.
8. Wu, AC; Yang, WB; Chang, KY; Lee, JS; Liou, JP; Su, RY; Cheng, SM; Hwang, DY; Kikkawa, U; Hsu, TI; Wang, CY; Chang, WC; Chen, PY; Chuang, JY. [HDAC6 involves in regulating the lncRNA-microRNA-mRNA network to promote the proliferation of glioblastoma cells](#). Journal of Experimental and Clinical Cancer Research. 2022 Feb 2; 41: Article number 47.
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National Institute of Environmental Health Sciences

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7. Wang, CC; Liang, YC; Wang, SS; Lin, P; Tung, CW. [A machine learning-driven approach for prioritizing food contact chemicals of carcinogenic concern based on complementary in silico methods](#). Food and Chemical Toxicology. 2022 Feb; 160: Article number 112802.

National Institute of Infectious Diseases and Vaccinology

1. Yeh, CH; Chou, YJ; Tsai, TH; Hsu, PWC; Li, CH; Chan, YH; Tsai, SF; Ng, SC; Chou, KM; Lin, YC; Juan, YH; Fu, TC; Lai, CC; Sytwu, HK; Tsai, TF. [Artificial-intelligence-assisted discovery of genetic factors for precision medicine of antiplatelet therapy in diabetic peripheral artery disease](#). Biomedicines. 2022 Jan; 10: Article number 116.
2. Wu, CJ; Cia, CT; Wang, HC; Chen, CW; Lin, WC; Lee, JC; Chen, PS; Hsieh, CC; Li, WT; Su, PL; Liao, XM; Hsieh, MI; Choi, PC; Ko, WC. [Clinical and microbiological characteristics of culture-positive, influenza-associated pulmonary aspergillosis: A single-center study in Southern Taiwan, 2016-2019](#). Journal of Fungi. 2022 Jan 04; 8(1): Article number 49.
3. Liu, WL; Yu, HY; Chen, YX; Chen, BY; Leaw, SN; Lin, CH; Su, MP; Tsai, LS; Chen, Y; Shiao, SH; Xi, Z; Jang, ACC; Chen, CH. [Lab-scale characterization and semi-field trials of Wolbachia Strain wAlbB in a Taiwan Wolbachia introgressed Ae. aegypti strain](#). PLoS Neglected Tropical Diseases. 2022 Jan 11; 16: Article number e0010084.
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Center for Neuropsychiatric Research

1. Chen, LJ; Stubbs, B; Chien, IC; Lan, TH; Chung, MS; Lee, HL; Hsu, WC; Ku, PW. [Associations between daily steps and cognitive function among inpatients with schizophrenia](#). BMC Psychiatry. 2022 Feb 4; 22: Article number 87.

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3. Huang, YC; Hsu, SM; Shie, FS; Shiao, YJ; Chao, LJ; Chen, HW; Yao, HH; Chien, MA; Lin, CC; Tsay, HJ. [Reduced mitochondria membrane potential and lysosomal acidification are associated with decreased oligomeric Abeta degradation induced by hyperglycemia: A study of mixed glia cultures.](#) PLoS ONE. 2022 Jan 24; 17(1): Article number e0260966.
4. Su, IJ; Hsu, CY; Shen, S; Chao, PK; Hsu, JTA; Hsueh, JT; Liang, JJ; Hsu, YT; Shie, FS. [The beneficial effects of combining anti-Abeta antibody NP106 and curcumin analog TML-6 on the treatment of Alzheimer' s disease in APP/PS1 mice.](#) International Journal of Molecular Sciences. 2022 Jan 5; 23(1): Article number 556.
5. Liu, TH; Tsou, HH; Chung, RH; Liu, SC; Wang, SC; Kuo, HW; Fang, CP; Chen, ACH; Liu, YL. [Association of the D-amino acid oxidase gene with methadone dose in heroin dependent patients under methadone maintenance treatment.](#) Journal of Human Genetics. 2022 Jan 04; Article in Press.

Immunology Research Center

1. Chang, CS; Yu, WH; Su, CC; Ruan, JW; Lin, CM; Huang, CT; Tsai, YT; Lin, IJ; Lai, CY; Chuang, TH; Lin, WJ; Tan, TH; Huang, HC; Juan, HF; Kao, CY. [Single-cell RNA sequencing uncovers the individual alteration of intestinal mucosal immunocytes in Dusp6 knockout mice.](#) iScience. 2022 Feb 18; 25(2): Article number 103738.

National Mosquito-Borne Diseases Control Research Center

1. Liu, WL; Yu, HY; Chen, YX; Chen, BY; Leaw, SN; Lin, CH; Su, MP; Tsai, LS; Chen, Y; Shiao, SH; Xi, Z; Jang, ACC; Chen, CH. [Lab-scale characterization and semi-field trials of Wolbachia Strain wAlbB in a Taiwan Wolbachia introgressed Ae. aegypti strain.](#) PLoS Neglected Tropical Diseases. 2022 Jan 11; 16: Article number e0010084.
2. Liu, LT; Tsai, JJ; Chen, CH; Lin, PC; Tsai, CY; Tsai, YY; Hsu, MC; Chuang, WL; Chang, JM; Hwang, SJ; Chong, IW. [Isolation and identification of a rare spike gene double-deletion](#)

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3. Chien, YW; Chuang, HN; Wang, YP; Perng, GC; Chi, CY; Shih, HI. [Short-term, medium-term, and long-term risks of nonvariceal upper gastrointestinal bleeding after dengue virus infection](#). *PLoS Neglected Tropical Diseases*. 2022 Jan 19; 16: Article number e0010039.

NHRI Graduate Student Program

1. Feng, YH; Lim, SW; Lin, HY; Wang, SA; Hsu, SP; Kao, TJ; Ko, CY; Hsu, TI. [Allopregnanolone suppresses glioblastoma survival through decreasing DPYSL3 and S100A11 expression](#). *Journal of Steroid Biochemistry and Molecular Biology*. 2022 May; 219: Article number 106067.
2. Tsai, JH; Huang, CF; Lin, MN; Chang, CE; Chang, CC; Lin, CL. [Taiwanese vegetarians are associated with lower dementia risk: A prospective cohort study](#). *Nutrients*. 2022 Jan 28; 14(3): Article number 588.
3. Tsai, CY; Chiou, SJ; Ko, HJ; Cheng, YF; Lin, SY; Lai, YL; Lin, CY; Wang, C; Cheng, JT; Liu, HF; Kwan, AL; Loh, JK; Hong, YR. [Deciphering the evolution of composite-type GSKIP in mitochondria and Wnt signaling pathways](#). *PLoS ONE*. 2022 Jan 20; 17(1): Article number e0262138.

Core Instrument Center

1. Li, RN; Shen, PT; Lin, HYH; Liang, SS. [Shotgun proteomic analysis using human serum from type 2 diabetes mellitus patients](#). *International Journal of Diabetes in Developing Countries*. 2022 Jan 30; Article in Press.