

NHRI Publication _Aug 2021

Institute of Biomedical Engineering and Nanomedicine

1. Lee, SH; Chen, YH; Chien, CC; Yan, YH; Chen, HC; Chuang, HC; Hsieh, HI; Cho, KH; Kuo, LW; Chou, CC; Chiu, MJ; Tee, BL; Chen, TF; Cheng, TJ. [Three month inhalation exposure to low-level PM2.5 induced brain toxicity in an Alzheimer's disease mouse model](#). *PLoS ONE*. 2021 Aug 26; 16(8): Article number e0254587.
2. Saurabh, K; Solovchuk, MA; Sheu, TWH. [Lattice Boltzmann method to simulate three-dimensional ion channel flow using fourth order Poisson-Nernst-Planck-Bikerman model](#). *Physics of Fluids*. 2021 Aug 19; 33(8): Article number 081910.
3. Chen, WY; Chen, YT; Ke, CJ; Chen, CY; Lin, FH. [The synthesis and evaluation of RGD-conjugated chitosan gel as daily supplement for body weight control](#). *Materials*. 2021 Aug 10; 14(16): Article number 4467.
4. Chen, IC; Su, CY; Fang, CH; Fang, HW. [Preventative treatment of red light-emitting diode protected osteoarthritis-like chondrocytes from oxidative stress-induced inflammation and promoted matrix gene expression](#). *Journal of the Taiwan Institute of Chemical Engineers*. 2021 Aug 02; Article in Press.
5. Liao, WH; Hsiao, MY; Kung, Y; Huang, APH; Chen, WSA. [Investigation of the therapeutic effect of doxorubicin combined with focused shockwave on glioblastoma](#). *Frontiers in Oncology*. 2021 Jul 28; Article in Press.
6. Bai, KJ; Tung, NT; Hsiao, TC; Chen, TL; Chung, KF; Ho, SC; Tsai, CY; Chen, JK; Lee, CN; Lee, KY; Chang, CC; Chen, TT; Feng, PH; Chen, KY; Su, CL; Thao, HNX; Dung, HB; Thuy, TPC; Lee, YL; Chuang, HC. [Associations between lung-deposited dose of particulate matter and culture-positive pulmonary tuberculosis pleurisy](#). *Environmental Science and Pollution Research*. 2021 Aug 26; Article in Press.
7. Huang, CFJ; Lin, WL; Hwang, SC; Yao, C; Chang, H; Kuo, LW. [Anatomical Phase Extraction \(APE\) method: A novel method to correct detrimental effects of tissue-inhomogeneity in referenceless MR thermometry-preliminary ex vivo investigation](#).

Computational and Mathematical Methods in Medicine. 2021 Aug 11; 2021: Article number 5566775.

8. Chien, WC; Cheng, PH; Cheng, XJ; Chuang, CC; Huang, YT; T, SA; Liu, CH; Lu, YJ; Wu, KC. [MCP-1-functionalized, core-shell gold Nanorod@Iron-based metal-organic framework \(MCP-1/GNR@MIL-100\(Fe\)\) for photothermal therapy](#). *ACS Applied Materials & Interfaces*. 2021 Aug 20; Article in Press.
9. Liao, FH; Yao, CN; Wu, TH; Chen, SP; Yeh, LC; Lin, SY; Lin, WJ. [Ultra-small platinum nanoparticle-enabled catalysis and corrosion susceptibility reverse tumor hypoxia for cancer chemoimmunotherapy](#). *ACS Applied Bio Materials*. 2021 Jul;4(8):6527-6538.

Institute of Biotechnology and Pharmaceutical Research

1. Chueh, JS; Peng, KY; Wu, VC; Shuo-Meng, W; Chieh-Kai, C; Chen, YM; Ke, YY; Pan, CY; Liao, HW. [Characterization of a mutated KCNJ5 gene, G387R, in unilateral primary aldosteronism](#). *Journal of Molecular Endocrinology*. 2021 Aug 1; Article in Press.
2. Lee, LC; Peng, YH; Chang, HH; Hsu, T; Lu, CT; Huang, CH; Hsueh, CC; Kung, FC; Kuo, CC; Jiaang, WT; Wu, SY. [Xanthine derivatives reveal an allosteric binding site in methylenetetrahydrofolate dehydrogenase 2 \(MTHFD2\)](#). *Journal of Medicinal Chemistry*. 2021 Aug 12; 64(15): 11288-11301.

Institute of Cellular and Systems Medicine

1. Lu, YJ; Wu, YJ; Chen, LJ; Ko, BS; Chang, TC; Wu, YJ; Liang, SM; Jan, YJ; Liou, JY. [Reduced expression of metallothionein-I/II in renal proximal tubules is associated with advanced chronic kidney disease](#). *Toxins*. 2021 Aug 15; 13(8): Article number 568.
2. Wu, MJ; Chen, CJ; Lin, TY; Liu, YY; Tseng, LL; Cheng, ML; Chuu, CP; Tsai, HK; Kuo, WL; Kung, HJ; Wang, WC. [Targeting KDM4B that coactivates c-Myc-regulated metabolism to suppress tumor growth in castration-resistant prostate cancer](#). *Theranostics*. 2021 Jun 26; 11(16): 7779-7796.
3. Ho, MY; Wang, CY. [Role of irisin in myocardial infarction, heart failure, and cardiac hypertrophy](#). *Cells*. 2021 Aug 16; 10(8): Article number 2103.

4. Kuo, JT; Tsai, HE; Lin, CT; Lee, CI; Lee, PL; Ruan, YR; Chiu, JJ; Lee, DY. [Low levels of microRNA-10a in cardiovascular endothelium and blood serum are related to human atherosclerotic disease](#). *Cardiology Research and Practice*. 2021 Jul; 2021: Article number 1452917.

Institute of Molecular and Genomic Medicine

1. Weng, HY; Wu, RW; Chen, YT; Lin, YF; Liu, YM; Tsai, SF; Chang, CH. [Novel ADAR1 mutations in three cases of psoriasis coexisting with dyschromatosis symmetrica hereditaria](#). *Journal of the European Academy of Dermatology and Venereology*. 2021 Aug 21; Article in Press.
2. Yang, SJ; Wei, TC; Hsu, CH; Ho, SN; Lai, CY; Huang, SF; Chen, YY; Liu, SJ; Yu, GY; Dou, HY. [Characterization of virus replication, pathogenesis, and cytokine responses in syrian hamsters inoculated with SARS-CoV-2](#). *Journal of Inflammation Research*. 2021 Aug 11; 14: 3781-3795.
3. Lin, HD; Tseng, YK; Yuh, CH; Chen, SC. [Low concentrations of 4-ABP promote liver carcinogenesis in human liver cells and a zebrafish model](#). *Journal of Hazardous Materials*. 2022 Feb 05; 423(Part A): Article number 126954.
4. Huang, JF; Dai, CY; Huang, CF; Tsai, PC; Yeh, ML; Hsu, PY; Huang, SF; Bair, MJ; Hou, NJ; Huang, CI; Liang, PC; Lin, YH; Wang, CW; Hsieh, MY; Chen, SC; Lin, ZY; Yu, ML; Chuang, WL. [First-in-Asian double-blind randomized trial to assess the efficacy and safety of insulin sensitizer in nonalcoholic steatohepatitis patients](#). *Hepatology International*. 2021 Aug 12; Article in Press.
5. Liu, F; Zhou, J; Kundu-Roy, T; Wahler, J; So, JY; Lin, Y; Lou, YR; Barnard, NJ; Matsuura, I; Suh, N. [CD44 inhibits DCIS progression to invasive carcinoma](#). *Cancer Research*. 2021 Jul; 80(16, Suppl.): Abstract number 5052.

Institute of Population Health Sciences

1. Chan, LC; Yang, YC; Lin, HC; Wahlqvist, ML; Hung, YJ; Lee, MS. [Nutrition counseling is associated with less sarcopenia in diabetes: A cross-sectional and retrospective cohort](#)

- [study](#). *Nutrition*. 2021 Nov-Dec; 91-92: Article number 111269.
2. Bui, C; Lin, LY; Wu, CY; Chiu, YW; Chiou, HY. [Association between emotional eating and frequency of unhealthy food consumption among Taiwanese adolescents](#). *Nutrients*. 2021 Aug 10; 13(8): Article number 2739.
 3. Mashima, I; Liao, YC; Lin, CH; Nakazawa, F; Haase, EM; Kiyoura, Y; Scannapieco, FA. [Comparative pan-genome analysis of oral Veillonella species](#). *Microorganisms*. 2021 Aug 20; 9(8): Article number 1775.
 4. Wen, CP; Wai, JPM; Chen, CH; Gao, W. [Can weight loss be accelerated if we exercise smarter with wearable devices by subscribing to Personal Activity Intelligence \(PAI\)?](#) *Lancet Regional Health - Europe*. 2021 Jun; 5: Article number 100133.
 5. Chu, CF; Chang, CC; Lin, YH. [Podcasts, the pandemic, and a paradigm shift in medical careers](#). *Journal of the Formosan Medical Association*. 2021 Aug 23; Article in Press.
 6. Yen, CC; Lin, SY; Chen, SC; Chiu, YW; Chang, JM; Hwang, SJ. [Covid-19 vaccines in patients with maintenance hemodialysis](#). *Journal of personalized medicine*. 2021 Aug 12; 11(8): Article number 789.
 7. Lin, CH; Lin, WS; Wang, IA; Hsu, J; Wu, SI; Chen, CY. [Adverse effects on birth weight of parental illegal drug use during pregnancy and within two years before pregnancy](#). *Journal of Food and Drug Analysis*. 2021 Jun 25; 29(2): 364-374.
 8. Yao, TC; Wu, AC; Tsai, HJ. [Validation of the association of oral corticosteroid bursts with adverse events in children-reply](#). *JAMA Pediatrics*. 2021 Aug 23; Article in Press.
 9. Dai, HJ; Yang, YH; Wang, TH; Lin, YJ; Lu, PJ; Wu, CY; Chang, YC; Lee, YQ; Zhang, YC; Hsu, YC; Wu, HH; Ke, CR; Huang, CJ; Wang, YT; Yang, SF; Hsiao, KC; Liu, KJ; Chen, LT; Chang, IS; Chao, KSC; Liu, TW. [Cancer registry coding via hybrid neural symbolic systems in the cross-hospital setting](#). *IEEE Access*. 2021 Jul 26; 9: 112081-112096.
 10. Chen, YY; Tsai, CW; Chang, SS; Lin, YH; Chi, YC; Chien Chang Wu, K. [Differences in reactions to media reporting of a celebrity suicide between emotionally distressed and nondistressed individuals in Taiwan](#). *Crisis*. 2021 Aug 24; Article in Press.
 11. Huang, CH; Lin, CY; Yang, CY; Chan, TC; Chiang, PH; Chen, YH. [Relationship](#)

- [between the Incidence of dengue virus transmission in traditional market and climatic conditions in Kaohsiung city](#). *Canadian Journal of Infectious Diseases and Medical Microbiology*. 2021 Aug; 2021: Article number 9916642.
12. Chu, WM; Ho, HE; Yeh, CJ; Hsiao, YH; Hsu, PS; Lee, SH; Lee, MC. [Self-rated health trajectory and frailty among community-dwelling older adults: Evidence from the Taiwan Longitudinal Study on Aging \(TLSA\)](#). *BMJ Open*. 2021 Aug 06; 11(8): Article number e049795.
 13. Li, CL; Chiu, YC; Shyu, YIL; Stanaway, FF; Chang, HY; Bai, YB. [Does physical activity protect older persons with frailty and cognitive impairment from excess all-cause mortality?](#) *Archives of Gerontology and Geriatrics*. 2021 Nov-Dec; 97: Article number 104500.

National Institute of Cancer Research

1. Gopinathan, P; Lu, TH; Chiang, NJ; Huang, CJ; Tu, HC; Hung, SC; Shan, YS; Lee, GB. [Exfoliated tumor cells in bile as a promising indicator of disease status in cholangiocarcinoma](#). *Sensors and Actuators B: Chemical*. 2021 Nov 01; 346: Article number 130526.
2. Hsu, YC; Luo, CW; Huang, WL; Wu, CC; Chou, CL; Chen, CI; Chang, SJ; Chai, CY; Wang, HC; Chen, TY; Li, CF; Pan, MR. [BMI1-KLF4 axis deficiency improves responses to neoadjuvant concurrent chemoradiotherapy in patients with rectal cancer](#)[Erratum: [Radiotherapy and Oncology](#). 2020 Aug; 149: 249-258.]. *Radiotherapy and Oncology*. 2021 Jul 31; Article in Press.
3. Wang, CA; Li, CF; Huang, RC; Li, YH; Liou, JP; Tsai, SJ. [Suppression of extracellular vesicle VEGF-C-mediated lymphangiogenesis and pancreatic cancer early dissemination by a selective HDAC1/2 inhibitor](#). *Molecular Cancer Therapeutics*. 2021 Aug 17; Article in Press.
4. Chen, TJ; Dehghanian, SZ; Chan, TC; He, HL; Li, WS; Abdollahi, S; Chen, NY; Li, CF; Shiue, YL. [High G protein subunit beta 4 protein level is correlated to poor prognosis of urothelial carcinoma](#). *Medical Molecular Morphology*. 2021 Aug 16; Article in Press.

5. Cheng, SM; Shieh, MC; Lin, TY; Cheung, CHA. [The Dark Side of autophagy on the maintenance of genome stability: Does it really exist during excessive activation?](#). *Journal of Cellular Physiology*. 2021 Aug 18; Article in Press.
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8. Dai, HJ; Yang, YH; Wang, TH; Lin, YJ; Lu, PJ; Wu, CY; Chang, YC; Lee, YQ; Zhang, YC; Hsu, YC; Wu, HH; Ke, CR; Huang, CJ; Wang, YT; Yang, SF; Hsiao, KC; Liu, KJ; Chen, LT; Chang, IS; Chao, KSC; Liu, TW. [Cancer registry coding via hybrid neural symbolic systems in the cross-hospital setting](#). *IEEE Access*. 2021 Jul 26; 9: 112081-112096.
9. Li, CF; Chan, TC; Pan, CT; Vejvisithsakul, PP; Lai, JC; Chen, SY; Hsu, YW; Shiao, MS; Shiue, YL. [EMP2 induces cytostasis and apoptosis via the TGFABeta/SMAD/SP1 axis and recruitment of P2RX7 in urinary bladder urothelial carcinoma](#). *Cellular Oncology*. 2021 Aug 8; Article in Press.
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National Institute of Environmental Health Sciences

1. Hsu, HT; Wu, CD; Chung, MC; Shen, TC; Lai, TJ; Chen, CY; Wang, RY; Chung, CJ. [The effects of traffic-related air pollutants on chronic obstructive pulmonary disease in the community-based general population](#). *Respiratory Research*. 2021 Aug 03; 22: Article number 217.
2. Pan, SC; Hsu, MC; Chang, HH; Wang, JT; Lai, YL; Chen, PC; Chang, SY; Sheng, WH; Chen, YC; Chen, SC; Chang, SC. [Prospective health surveillance for COVID-19 among health care workers at a university medical center in Taiwan, January to June 2020](#). *Journal of the Formosan Medical Association*. 2021 Jul 23; Article in Press.
3. He, QL; Liu, LX; Chang, HT; Wu, CD; Ji, JS. [Residential green space structures and mortality in an elderly prospective longitudinal cohort in China](#). *Environmental Research Letters*. 2021 Sep; 16(9): Article number 094003.
4. Shih, P; Wu, CD; Chiang, TL; Chen, PC; Su, TC; Cheng, TJ; Chen, YH; Guo, YL. [The association between postpartum depression and air pollution during pregnancy and postpartum period: A national population study in Taiwan](#). *Environmental Research Letters*. 2021 Aug; 16(8): Article number 084021.
5. Yang, YH; Ho, PS; Wu, TN; Wang, PW; Lin, CHR; Tsai, JH; Guo, YL; Chuang, HY. [Risk of motor vehicle collisions after methadone use](#). *eLife*. 2021 Aug; 10: Article number e63954.
6. Tseng, CH. [Metformin and risk of malignant brain tumors in patients with type 2 diabetes mellitus](#). *Biomolecules*. 2021 Aug 17; 11(8): Article number 1226.

National Institute of Infectious Diseases and Vaccinology

1. Liu, BS; Jiang, BR; Hu, KC; Liu, CH; Hsieh, WC; Lin, MH; Sung, WC. [Development of a broad-spectrum antiserum against cobra venoms using recombinant three-finger toxins](#). *Toxins*. 2021 Aug 10; 13(8): Article number 556.
2. Yang, SJ; Wei, TC; Hsu, CH; Ho, SN; Lai, CY; Huang, SF; Chen, YY; Liu, SJ; Yu, GY; Dou, HY. [Characterization of virus replication, pathogenesis, and cytokine responses in syrian hamsters inoculated with SARS-CoV-2](#). *Journal of Inflammation Research*. 2021 Aug 11; 14: 3781-3795.
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9. Wang, CH; Siu, LK; Chang, FY; Tsai, YK; Lin, YT; Chiu, SK; Huang, LY; Lin, JC. [A novel deletion mutation in pmrB contributes to concurrent colistin resistance in carbapenem-resistant escherichia coli sequence type 405 of clinical origin](#)[Erratum: [Antimicrobial Agents and Chemotherapy](#). 2020 Jun; 64(6): e00220-20.]. *Antimicrobial Agents and Chemotherapy*. 2021 Aug 17; 65(9): Article number e0137421.

Center for Neuropsychiatric Research

1. Hsieh, CP; Chen, ST; Lee, MY; Huang, CM; Chen, HH; Chan, MH. [N, N-dimethylglycine protects behavioral disturbances and synaptic deficits induced by repeated ketamine exposure in mice](#). *Neuroscience*. 2021 Aug 13; 472: 128-137.
2. Lin, CH; Lin, WS; Wang, IA; Hsu, J; Wu, SI; Chen, CY. [Adverse effects on birth weight of parental illegal drug use during pregnancy and within two years before pregnancy](#). *Journal of Food and Drug Analysis*. 2021 Jun 25; 29(2): 364-374.
3. Lin, CH; Tao, PL; Tsay, HJ; Chiang, YC; Chang, WT; Ho, IK; Shie, FS. [Dextromethorphan dampens neonatal astrocyte activation and endoplasmic reticulum stress induced by prenatal exposure to buprenorphine](#). *Behavioural Neurology*. 2021 Jul; 2021: Article number 6301458.

Immunology Research Center

1. Kuo, WL; Tseng, LL; Chang, CC; Chen, CJ; Cheng, ML; Cheng, HH; Wu, MJ; Chen, YL; Chang, RT; Tang, HY; Hsu, YC; Lin, WJ; Kao, CY; Hsieh, WP; Kung, HJ; Wang, WC. [Prognostic significance of o-glcna6 and PKM2 in hormone receptor-positive and HER2-non-enriched breast cancer](#). *Diagnostics*. 2021 Aug 12; 11(8): Article number 1460.
2. Liao, FH; Yao, CN; Wu, TH; Chen, SP; Yeh, LC; Lin, SY; Lin, WJ. [Ultra-small platinum nanoparticle-enabled catalysis and corrosion susceptibility reverse tumor hypoxia for cancer chemoimmunotherapy](#). *ACS Applied Bio Materials*. 2021 Jul; 4(8):6527-6538.

Pathology Core Laboratory

1. Yang, SJ; Wei, TC; Hsu, CH; Ho, SN; Lai, CY; Huang, SF; Chen, YY; Liu, SJ; Yu, GY; Dou, HY. [Characterization of virus replication, pathogenesis, and cytokine responses in syrian hamsters inoculated with SARS-CoV-2.](#) *Journal of Inflammation Research.* 2021 Aug 11; 14: 3781-3795.

Animal Behavior Core Facility

1. Hsieh, CP; Chen, ST; Lee, MY; Huang, CM; Chen, HH; Chan, MH. [N, N-dimethylglycine protects behavioral disturbances and synaptic deficits induced by repeated ketamine exposure in mice.](#) *Neuroscience.* 2021 Aug 13; 472: 128-137.

Graduate Student Program

1. Su, YS; Chen, JJ; Cheng, MJ; Chai, CY; Kwan, AL; Huang, JC; Kuo, YH. [Saccharpiscinols A-C: Flavans with potential inflammatory activities from one actinobacteria *Saccharomonospora piscinae*.](#) *Molecules.* 2021 Aug 13; 26(16): Article number 4909.
2. Yang, YH; Ho, PS; Wu, TN; Wang, PW; Lin, CHR; Tsai, JH; Guo, YL; Chuang, HY. [Risk of motor vehicle collisions after methadone use.](#) *eLife.* 2021 Aug; 10: Article number e63954.
3. Tsou, YS; Wang, CY; Chang, MY; Hsu, TI; Wu, MT; Wu, YH; Tsai, WL; Chuang, JY; Kao, TJ. [Vav2 is required for Netrin-1 receptor-class-specific spinal motor axon guidance.](#) *Developmental Dynamics.* 2021 Aug 10; Article in Press.