

NHRI Publication _ Oct 2021

Institute of Biomedical Engineering and Nanomedicine

1. Lai, YL; Chen, K; Lee, TW; Tso, CW; Lin, HH; Kuo, LW; Chen, CY; Liu, HS. [The effect of the APOE-epsilon4 allele on the cholinergic circuitry for subjects with different levels of cognitive impairment.](#) *Frontiers in Neurology*. 2021 Oct 13; 12: Article number 651388.
2. Chen, IC; Su, CY; Lai, CC; Tsou, YS; Zheng, Y; Fang, HW. [Preparation and characterization of moldable demineralized bone matrix/calcium sulfate composite bone graft materials.](#) *Journal of Functional Biomaterials*. 2021 Oct 4; 12(4): Article number 56.
3. Huang, CJ; Peng, HL; Patel, AK; Singhania, RR; Dong, CD; Cheng, CY. [Effects of lower temperature on expression and biochemical characteristics of hcv ns3 antigen recombinant protein.](#) *Catalysts*. 2021 Oct 27; 11(11): Article number 1297.
4. Lin, CH; Luo, SC. [Combination of AFM and electrochemical QCM-D for probing zwitterionic polymer brushes in water: Visualization of ionic strength and surface potential effects.](#) *Langmuir*. 2021 Oct 26; 37(42): 12476-12486.
5. Chen, YH; Yu, YS; Yu, PT; Fang, HW; Chang, YC; Wu, KCW. [Lipid-assisted synthesis of magnesium-loaded hydroxyapatite as a potential bone healing material.](#) *Journal of the Taiwan Institute of Chemical Engineers*. 2021 Sep 28; Article in Press.
6. Wang, SJ; Lu, HT; Wang, YC; Huang, HY; Yang, CS. [A rapid screening method to select microdialysis carriers for hydrophobic compounds.](#) *PLoS ONE*. 2021 Sep 1; 16(9): Article number e0256920.
7. Farrher, E; Chiang, CW; Cho, KH; Grinberg, F; Buschbeck, RP; Chen, MJ; Wu, KJ; Wang, Y; Huang, SM; Abbas, Z; Choi, CH; Shah, NJ; Kuo, LW. [Spatiotemporal characterisation of ischaemic lesions in transient stroke animal models using diffusion free water elimination and mapping MRI with echo time dependence.](#) *NeuroImage*. 2021 Dec 1; 244: Article number 118605.

Institute of Biotechnology and Pharmaceutical Research

1. Miao, YB; Lin, YJ; Chen, KH; Luo, PK; Chuang, SH; Yu, YT; Tai, HM; Chen, CT; Lin, KJ; Sung, HW. [Engineering nano- and microparticles as oral delivery vehicles to promote intestinal lymphatic drug transport.](#) *Advanced Materials*. 2021 Oct 01; 201: Article number 2104139.

Institute of Cellular and Systems Medicine

1. Ko, BS; Liang, SM; Chang, TC; Wu, JY; Lee, PH; Hsu, YJ; Kuo, CC; Liou, JY; Wu, KK. [Association of tumor hydroxyindole o-methyltransferase and serum 5-methoxytryptophan with long-term survival of hepatocellular carcinoma.](#) *Cancers*. 2021 Oct 22; 13(21): Article number 5311.
2. Ting, HC; Yang, HI; Harn, HJ; Chiu, IM; Su, HL; Li, X; Chen, MF; Ho, TJ; Liu, CA; Tsai, YJ; Chiou, TW; Lin, SZ; Chang, CY. [Coactivation of gsk3Beta and igf-1 attenuates amyotrophic lateral sclerosis nerve fiber cytopathies in sod1 mutant patient-derived motor neurons.](#) *Cells*. 2021 Oct 16; 10(10): Article number 2773.

Institute of Molecular and Genomic Medicine

1. Yeh, CH; Chou, YJ; Chu, TK; Tsai, TF. [Rejuvenating the aging heart by enhancing the expression of the cisd2 prolongevity gene.](#) *International Journal of Molecular Sciences*. 2021 Oct 25; 22(21): Article number 11487.
2. Hong, YP; Wang, YW; Chen, BH; Song, HY; Chiou, CS; Chen, YT. [RamAp, an efflux pump regulator carried by an IncHI2 plasmid.](#) *Antimicrobial Agents and Chemotherapy*. 2021 Oct 25; Article in Press.
3. Huang, YL; Lin, CH; Tsai, TH; Huang, CH; Li, JL; Chen, LK; Li, CH; Tsai, TF; Wang, PN. [Discovery of a metabolic signature predisposing high risk patients with mild cognitive impairment to converting to Alzheimer's disease.](#) *International Journal of Molecular Sciences*. 2021 Oct 9; 22(20): Article number 10903.
4. Lai, RH; Hsu, YY; Shie, FS; Huang, CC; Chen, MH; Juang, JL. [Non-genomic rewiring of vitamin D receptor to p53 as a key to Alzheimer's disease.](#) *Aging Cell*. 2021 Nov 2: Article

number e13509.

Institute of Population Health Sciences

1. Hsiao, YH; Lee, MC; Yeh, CJ; Tai, CJ; Lee, SS. [Social participation and survival in widowed persons: Results of the Taiwan longitudinal study on aging.](#) International Journal of Environmental Research and Public Health. 2021 Oct 19; 18(20): Article number 10974.
2. Lee, CC; Liao, YC; Lee, MC; Lin, KJ; Hsu, HY; Chiou, SY; Young, SL; Lin, JS; Huang, CC; Watanabe, K. [Lactobacillus plantarum TWK10 attenuates aging-associated muscle weakness, bone loss, and cognitive impairment by modulating the gut microbiome in mice.](#) Frontiers in Nutrition. 2021 Oct 13; 8: Article number 708096.
3. Lin, PS. [Identification of geographic clusters for temporal heterogeneity with application to dengue surveillance.](#) Statistics in Medicine. 2021 Oct 20; Article in Press.
4. Tsai, HF; Wu, CH; Hsu, CC; Liu, CL; Hsu, YH. [Development of the subjective cognitive decline scale for mandarin-speaking population.](#) American Journal of Alzheimers Disease and Other Dementias. 2021 Sep; 36: 1-11.
5. Lu, TP; Chattopadhyay, A; Lu, KC; Chuang, JY; Yeh, SS; Chang, IS; Chen, CJ; Wu, IC; Hsu, CC; Chen, TY; Tseng, WT; Hsiung, CA; Juang, JJ. [Develop and apply electrocardiography-based risk score to identify community-based elderly individuals at high-risk of mortality.](#) Frontiers in Cardiovascular Medicine. 2021 Oct 8; 8: Article number 738061.
6. Wu, YJ; Cheng, YC; Chiang, C; Cheng, LH; Liu, CT; Hsiao, CF. [Use of likelihood estimates for variances for the design and evaluation of multiregional clinical trials with heterogeneous variances.](#) Statistics in Medicine. 2021 Oct 27; Article in Press.
7. Chen, C; Hsiao, CF. [Comment on "Biostatistical considerations when using RWD and RWE in clinical studies for regulatory purposes: A landscape assessment": Is real-world evidence real?.](#) Statistics in Biopharmaceutical Research. 2021 Sep 27; Article in Press.
8. Lin, MY; Niu, SW; Li, WM; Lee, HL; Chen, LT; Wu, WJ; Hwang, SJ. [Incidence and survival variations of upper tract urothelial cancer in Taiwan \(2001-2010\).](#) International Journal of Urology. 2021 Oct 27; Article in Press.
9. Wang, Y; Hong, XM; Yao, TC; Tsai, HJ; Wang, XB. [Interaction of maternal asthma history](#)

[and plasma folate levels on child asthma risk in the Boston Birth Cohort.](#) Pediatric Pulmonology. 2021 Oct 4; Article in Press.

10. Liang, SK; Chien, LH; Chang, GC; Tsai, YH; Su, WC; Chen, YM; Huang, MS; Lin, HC; Fang, WT; Hung, HH; Jiang, SS; Chen, CY; Chen, KY; Chang, IS; Hsiung, CA; Chen, CJ; Yang, PC; the GELAC Study Group. [Programmed death ligand 2 gene polymorphisms are associated with lung adenocarcinoma risk in female never-smokers.](#) Frontiers in Oncology. 2021 Sep; 11: Article number 753788.

National Institute of Cancer Research

1. Chu, PY; Chan, SH. [Cure the incurable? Recent breakthroughs in immune checkpoint blockade for hepatocellular carcinoma.](#) Cancers. 2021 Oct 22; 13(21): Article number 5295.
2. Paramastri, R; Hsu, CY; Chuang, YK; Lee, HA; Wiratama, BS; Chao, JCJ. [Synergistic interaction of dietary pattern and concordance lifestyle with abnormal liver function among young adults in Taiwan: A population-based longitudinal study.](#) Nutrients. 2021 Oct 14; 13(10): Article number 3591.
3. Weng, YC; Ho, HJ; Chang, YL; Chang, YT; Wu, CY; Chen, YJ. [Reduced risk of skin cancer and internal malignancies in vitiligo patients: A retrospective population-based cohort study in Taiwan.](#) Scientific Reports. 2021 Oct 12; 11: Article number 20195.
4. Chu, PY; Tzeng, YDT; Chiu, YH; Lin, HY; Kuo, CH; Hou, MF; Li, CJ. [Multi-omics reveals the immunological role and prognostic potential of mitochondrial ubiquitin ligase march5 in human breast cancer.](#) Biomedicines. 2021 Sep 26; 9(10): Article number 132.
5. Huang, WC; Chi, HC; Tung, SL; Chen, PM; Shih, YC; Huang, YC; Chu, PY. [Identification of the novel tumor suppressor role of focad/mir-491-5p to inhibit cancer stemness, drug resistance and metastasis via regulating rabif/mmp signaling in triple negative breast cancer.](#) Cells. 2021 Sep 24; 10(10): Article number 2524.
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7. Valle, JW; Vogel, A; Denlinger, CS; He, AR; Bai, LY; Orlova, R; Van Cutsem, E; Adeva, J;

- Chen, LT; Obermannova, R; Ettrich, TJ; Chen, JS; Wasan, H; Girvan, AC; Zhang, W; Liu, JG; Tang, CL; Ebert, PJ; Aggarwal, A; McNeely, SC; Moser, BA; Oliveira, JM; Carlesi, R; Walgren, RA; Oh, DY. [Addition of ramucirumab or merestinib to standard first-line chemotherapy for locally advanced or metastatic biliary tract cancer: A randomised, double-blind, multicentre, phase 2 study.](#) *Lancet Oncology*. 2021 Oct; 22(10): 1468-1482.
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 11. Chen, YC; Chien, CY; Hsu, CC; Lee, CH; Chou, YT; Shiah, SG; Liu, SY; Yen, CY; Hsieh, AC; Wabitsch, M; Shieh, YS. [Obesity-associated leptin promotes chemoresistance in colorectal cancer through YAP-dependent AXL upregulation.](#) *American Journal of Cancer Research*. 2021 Sep 15; 11(9): 4220-4240.
 12. Liang, SK; Chien, LH; Chang, GC; Tsai, YH; Su, WC; Chen, YM; Huang, MS; Lin, HC; Fang, WT; Hung, HH; Jiang, SS; Chen, CY; Chen, KY; Chang, IS; Hsiung, CA; Chen, CJ; Yang, PC; the GELAC Study Group. [Programmed death ligand 2 gene polymorphisms are associated with lung adenocarcinoma risk in female never-smokers.](#) *Frontiers in Oncology*. 2021 Sep; 11: Article number 753788.
 13. Hsueh, WT; Chen, SH; Chien, CH; Chou, SW; Chi, PI; Chu, JM; Chang, KY. [SOD2 enhancement by long-term inhibition of the pi3k pathway confers multi-drug resistance and](#)

- [enhanced tumor-initiating features in head and neck cancer](#). International Journal of Molecular Sciences. 2021 Oct 19; 22(20): Article number 11260.
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National Institute of Environmental Health Sciences

1. Chang, CH; Tsai, YA; Huang, YF; Tsai, MS; Hou, JW; Lin, CL; Wang, PW; Huang, LW; Chen, CY; Wu, CF; Hsieh, CJ; Wu, MT; Wang, SL; Chen, ML. [The sex-specific association of prenatal phthalate exposure with low birth weight and small for gestational age: A nationwide survey by the Taiwan Maternal and Infant Cohort Study \(TMICS\)](#). Science of the Total Environment. 2021 Oct 29; Article in Press.
2. Tsai, TL; Wang, SL; Hsieh, CJ; Wen, HJ; Kuo, CC; Liu, HJ; Sun, CW; Chen, ML; Wu, MT; Group, the TMICS Study. [Association between prenatal exposure to metals and atopic dermatitis among children aged 4 years in Taiwan](#). JAMA Network Open. 2021 Oct 27; 4(10): Article number e2131327.
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 8. Chiu, WC; Shan, JC; Yang, YH; Chen, VCH; Chen, PC. [Statins and the risks of decompensated liver cirrhosis and hepatocellular carcinoma determined in patients with alcohol use disorder.](#) Drug and Alcohol Dependence. 2021 Nov 1; 228: Article number 109096.
 9. Shu, CC; Chen, JK; Huang, PC; Hwang, JS; Su, TC. [Association between urinary manganese and pulmonary function in young adults: A cross-sectional design with a longitudinal cohort validation.](#) Ecotoxicology and Environmental Safety. 2021 Dec 20; 227: Article number 112937.

National Institute of Infectious Diseases and Vaccinology

1. Chiu, H; Chiu, HP; Yu, HP; Lin, LH; Chen, ZP; Lin, YL; Lin, RJ. [Zinc finger protein ZFP36L1 inhibits flavivirus infection by both 5'-3' XRN1 and 3'-5' RNA-exosome RNA decay pathways.](#) Journal of Virology. 2021 Oct 13; Article in Press.
2. Huang, SW; Shen, MC; Wang, WH; Li, WY; Wang, JH; Tseng, CY; Liu, PY; Wang, LS; Lee, YL; Chen, YA; Lee, CY; Lu, PL; Wang, SF. [High prevalence of HIV-1 transmitted drug resistance and factors associated with time to virological failure and viral suppression in Taiwan.](#) Journal of Antimicrobial Chemotherapy. 2021 Oct 14; Article in Press.
3. Ho, TC; Chen, YMA; Chan, HP; Chang, CC; Chuang, KP; Lee, CH; Yuan, CH; Tyan, YC; Yang, MH. [The effects of heterologous immunization with prime-boost covid-19 vaccination against sars-cov-2.](#) Vaccines. 2021 Oct 11; 9(10): Article number 1163.
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Center for Neuropsychiatric Research

1. Lai, RH; Hsu, YY; Shie, FS; Huang, CC; Chen, MH; Juang, JL. [Non-genomic rewiring of vitamin D receptor to p53 as a key to Alzheimer's disease.](#) *Aging Cell*. 2021 Nov 2: Article number e13509.
2. Yu, TM; Sun, KT; Kung, SC; Lee, BK; Wu, MJ; Chen, CH; Sun, CS; Lo, YC; Lan, TH; Li, CY; Chiu, TF; Lin, MC; Kao, CH. [Severe herpes simplex and varicella-zoster viral infection in patients with solid organ transplantation: A nationwide population-based cohort study with propensity score matching analysis.](#) *Journal of the American Academy of Dermatology*. 2021 Oct 21; Article in Press.
3. Lin, YF; Chen, PY; Liu, HC; Chen, YL; Chou, WH; Huang, MC. [Shortened leukocyte telomere length in young adults who use methamphetamine.](#) *Translational Psychiatry*. 2021

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4. Chen, MH; Liu, YL; Kuo, HW; Tsai, SJ; Hsu, JW; Huang, KL; Tu, PC; Bai, YM. [Neurofilament light chain is a novel biomarker for major depression and related executive dysfunction.](#) International Journal of Neuropsychopharmacology. 2021 Oct 12; Article in Presse.
5. Chen, ST; Hsieh, CP; Lee, MY; Chen, LC; Huang, CM; Chen, HH; Chan, MH. [Betaine prevents and reverses the behavioral deficits and synaptic dysfunction induced by repeated ketamine exposure in mice.](#) Biomedicine and Pharmacotherapy. 2021 Dec; 144: Article number 112369.
6. Farrher, E; Chiang, CW; Cho, KH; Grinberg, F; Buschbeck, RP; Chen, MJ; Wu, KJ; Wang, Y; Huang, SM; Abbas, Z; Choi, CH; Shah, NJ; Kuo, LW. [Spatiotemporal characterisation of ischaemic lesions in transient stroke animal models using diffusion free water elimination and mapping MRI with echo time dependence.](#) NeuroImage. 2021 Dec 1; 244: Article number 118605.

Immunology Research Center

1. Tsai, YT; Ruan, JW; Chang, CS; Ko, ML; Chou, HC; Lin, CC; Lin, CM; Huang, CT; Wei, YS; Liao, EC; Chen, HY; Lin, LH; Lin, MW; Kao, CY; Chan, HL. [Proteomic and microbial assessments on the effect of Antrodia cinnamomea in C57BL/6 mice.](#) Archives of Biochemistry and Biophysics. 2021 Nov 30; 713: Article number 109058.
2. Chuang, HC; Chen, MH; Chen, YM; Yang, HY; Ciou, YR; Hsueh, CH; Tsai, CY; Tan, TH. [BPI overexpression suppresses Treg differentiation and induces exosome-mediated inflammation in systemic lupus erythematosus.](#) Theranostics. 2021 Oct 25; 11(20): 9953-9966.
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National Mosquito-Borne Diseases Control Research Center

1. Chiu, H; Chiu, HP; Yu, HP; Lin, LH; Chen, ZP; Lin, YL; Lin, RJ. [Zinc finger protein ZFP36L1 inhibits flavivirus infection by both 5'-3' XRN1 and 3'-5' RNA-exosome RNA decay pathways.](#) Journal of Virology. 2021 Oct 13; Article in Press.

Animal Behavior Core Facility

1. Chen, ST; Hsieh, CP; Lee, MY; Chen, LC; Huang, CM; Chen, HH; Chan, MH. [Betaine prevents and reverses the behavioral deficits and synaptic dysfunction induced by repeated ketamine exposure in mice.](#) Biomedicine and Pharmacotherapy. 2021 Dec; 144: Article number 112369.

Graduate Student Program

1. Lai, RH; Hsu, YY; Shie, FS; Huang, CC; Chen, MH; Juang, JL. [Non-genomic rewiring of vitamin D receptor to p53 as a key to Alzheimer's disease.](#) Aging Cell. 2021 Nov 2: Article number e13509.
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3. Lai, YL; Chen, K; Lee, TW; Tso, CW; Lin, HH; Kuo, LW; Chen, CY; Liu, HS. [The effect of the APOE-epsilon4 allele on the cholinergic circuitry for subjects with different levels of cognitive impairment.](#) Frontiers in Neurology. 2021 Oct 13; 12: Article number 651388.
4. Chen, IC; Su, CY; Lai, CC; Tsou, YS; Zheng, Y; Fang, HW. [Preparation and characterization of moldable demineralized bone matrix/calcium sulfate composite bone graft materials.](#) Journal of Functional Biomaterials. 2021 Oct 4; 12(4): Article number 56.
5. Chao, TY; Chan, LP; Lee, HH; Kao, YH; Jhong, YP; Chiang, CH; Chuang, ST; Huang, CJ. [Is pathological T4a an independent indication of adjuvant therapy in buccal mucosal or gingival squamous cell carcinoma?.](#) Therapeutic Radiology and Oncology. 2021 Sep 30; 5(3): Article number 6920.