

## NHRI Publication \_ Nov 2021

### Institute of Biomedical Engineering and Nanomedicine

1. Chiang, HH; Su, CY; Lin, HP; Chen, CP; Yu, TC; Fang, HW. [Pre-lubricated polypropylene injector for breast implant delivery](#). Journal of Medical Devices-Transactions of the Asme. 2021 Dec; 15(4): Article number 041006.
2. Chen, SH; Chen, ZY; Lin, YH; Chen, SH; Chou, PY; Kao, HK; Lin, FH. [Extracellular vesicles of adipose-derived stem cells promote the healing of traumatized achilles tendons](#). International Journal of Molecular Sciences. 2021 Nov 16; 22(22): Article number 12373.
3. He, CK; Hsu, CH. [Microfluidic technology for multiple single-cell capture](#). Biomicrofluidics. 2021 Nov 8; 15(6): Article number 061501.
4. Chung, YH; Qian, Q; Huang, HY; Chiu, WT; Yang, CS; Tzeng, SF. [The nuclear function of IL-33 in desensitization to DNA damaging agent and change of glioma nuclear structure](#). Frontiers in Cellular Neuroscience. 2021 Oct 20; 15: Article number 713336.
5. Wang, Y; Chu, TS; Lin, YR; Tsao, CH; Tsai, CH; Ger, TR; Chen, LT; Chang, WSW; Liao, LD. [Assessment of brain functional activity using a miniaturized head-mounted scanning photoacoustic imaging system in awake and freely moving rats](#). Biosensors. 2021 Oct 30; 11(11): Article number 429.
6. Chen, TY; Liu, CH; Chen, TH; Lin, KMC; Chen, MR; Liu, SW; Lin, P. [Conditioned media of adipose-derived stem cells suppresses sidestream cigarette smoke extract induced cell death and epithelial-mesenchymal transition in lung epithelial cells](#). International Journal of Molecular Sciences. 2021 Nov 8; 22(21): Article number 12069.

### Institute of Biotechnology and Pharmaceutical Research

1. Chen, JS; Huang, PH; Hsieh, YC; Liu, JW; Hsu, HL; Zhang, KM; Wu, RT; Chang, TS; Liu, YH; Wu, HR; Luo, SY. [Trimethylsilyl esters as novel dual-purpose protecting reagents](#). Synthesis-Stuttgart. 2021 Nov 27; Article in Press.

2. Nguyen, MHT; Luo, YH; Li, AL; Tsai, JC; Wu, KL; Chung, PJ; Ma, N. [miRNA as a modulator of immunotherapy and immune response in melanoma](#). *Biomolecules*. 2021 Nov 8; 11(11): Article number 1648.
3. Shiah, SG; Chou, ST; Chang, JY. [MicroRNAs: Their role in metabolism, tumor microenvironment, and therapeutic implications in head and neck squamous cell carcinoma](#). *Cancers*. 2021 Nov 9; 13(22): Article number 5604.
4. Lee, WJ; Tu, SH; Cheng, TC; Lin, JH; Sheu, MT; Kuo, CC; Changou, CA; Wu, CH; Chang, HW; Chang, HL; Chen, LC; Ho, YS. [Type-3 hyaluronan synthase attenuates tumor cells invasion in human mammary parenchymal tissues](#). *Molecules*. 2021 Oct 29; 26(21): Article number 6548.
5. Sun, CC; Lee, SY; Kao, CH; Chen, LH; Shen, ZQ; Lai, CH; Tzeng, TY; Pang, JHS; Chiu, WT; Tsai, TF. [Cisd2 plays an essential role in corneal epithelial regeneration](#). *EBioMedicine*. 2021 Nov 7; 73: Article number 103654.

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

1. Lee, GL; Liao, TL; Wu, JY; Wu, KK; Kuo, CC. [Restoration of 5-methoxytryptophan protects against atherosclerotic chondrogenesis and calcification in ApoE\(-/-\) mice fed high fat diet](#). *Journal of Biomedical Science*. 2021 Nov 8; 28: Article number 74.
2. Wei, SY; Shih, YT; Wu, HY; Wang, WL; Lee, PL; Lee, CI; Lin, CY; Chen, YJ; Chien, S; Chiu, JJ. [Endothelial Yin Yang 1 phosphorylation at S118 induces atherosclerosis under flow](#). *Circulation Research*. 2021 Nov 8; 129(12): 1158-1174.
3. Hsiao, PJ; Cheng, H; Kao, YH; Wang, YH; Chiu, CC; Chiang, WF; Kuo, CC; Chuu, CP; Wu, KA. [Comparison of laboratory diagnosis, clinical manifestation, and management of pulmonary cryptococcosis: Report of the clinical scenario and literature review](#). *Clinica Chimica Acta*. 2022 Jan 1; 542: 78-83.
4. Teng, PC; Huang, SP; Liu, CH; Lin, TY; Cho, YC; Lai, YL; Wang, SC; Yeh, HC; Chuu, CP; Chen, DN; Cheng, WC; Li, CY. [Identification of DNA damage repair-associated prognostic biomarkers for prostate cancer using transcriptomic data analysis](#). *International Journal of Molecular Sciences*. 2021 Oct 29; 22(21): Article number 11771.

5. Lin, PY; Cheng, C; Satyanarayanan, SK; Chiu, LT; Chien, YC; Chuu, CP; Lan, TH; Su, KP. [Omega-3 fatty acids and blood-based biomarkers in Alzheimer's disease and mild cognitive impairment: A randomized placebo-controlled trial](#). Brain, Behavior, and Immunity. 2022 Jan; 99: 289-298.

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

1. Wang, YH; Shen, CY; Lin, SC; Kuo, WH; Kuo, YT; Hsu, YL; Wang, WC; Lin, KT; Wang, LH. [Monocytes secrete CXCL7 to promote breast cancer progression](#). Cell Death and Disease. 2021 Nov 17; 12(12): Article number 1090.
2. Lu, SH; Lee, KZ; Yeh, YC; Pan, CY; Hsu, PW; Su, LY; Tsai, SY. [Alternative splicing mediated by RNA-binding protein RBM24 facilitates cardiac myofibrillogenesis in a differentiation stage-specific manner](#). Circulation Research. 2021 Nov 24; Article in Press.
3. Huang, YL; Shen, ZQ; Huang, CH; Lin, CH; Tsai, TF. [Cisd2 slows down liver aging and attenuates age-related metabolic dysfunction in male mice](#). Aging Cell. 2021 Nov 22; Article in Press.
4. Chen, CH; Chiang, AS; Tsai, HY. [Three-dimensional tracking of multiple small Insects by a single camera](#). Journal of Insect Science. 2021 Nov 1; 21(6): Article number 14.
5. Knolle, PA; Huang, LR; Kosinska, A; Wohlleber, D; Protzer, U. [Improving therapeutic vaccination against hepatitis b—insights from preclinical models of immune therapy against persistent hepatitis b virus infection](#). Vaccines. 2021 Nov 16; 9(11): Article number 133.
6. Sun, CC; Lee, SY; Kao, CH; Chen, LH; Shen, ZQ; Lai, CH; Tzeng, TY; Pang, JHS; Chiu, WT; Tsai, TF. [Cisd2 plays an essential role in corneal epithelial regeneration](#). EBioMedicine. 2021 Nov 7; 73: Article number 103654.

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

1. Chang, CS; Liao, YC; Huang, CT; Lin, CM; Cheung, CHY; Ruan, JW; Yu, WH; Tsai, YT; Lin, IJ; Huang, CH; Liou, JS; Chou, YH; Chien, HJ; Chuang, HL; Juan, HF; Huang, HC; Chan, HL; Liao, YC; Tang, SC; Su, YW; Tan, TH; Bäumlner, AJ; Kao, CY. [Identification of a gut microbiota member that ameliorates DSS-](#)

- [induced colitis in intestinal barrier enhanced Dusp6-deficient mice](#). Cell Reports. 2021 Nov 23; 37(8): Article number 110016.
2. Chung, CY; Wu, PH; Chiu, YW; Hwang, SJ; Lin, MY. [Effect of nephrology care on mortality in incident dialysis patients: A population-based cohort study](#). Journal of Personalized Medicine. 2021 Oct 24; 11(11): Article number 1071.
  3. Lin, CY; Lee, CY; Lee, HF; Wu, MY; Tseng, CN; Tsai, FC; Lin, YH. [Postoperative stroke after type A aortic dissection repair: Hemorrhage versus ischemia](#). World Journal of Surgery. 2021 Nov 9; Article in Press.
  4. Ward, JL; Azzopardi, PS; Francis, KL; Santelli, JS; Skirbekk, V; Sawyer, SM; Kassebaum, NJ; Mokdad, AH; Hay, SI; Abd-Allah, F; et al.. [Global, regional, and national mortality among young people aged 10-24 years, 1950-2019: A systematic analysis for the Global Burden of Disease Study 2019](#). Lancet. 2021 Oct; 398(10311): 1593-1618.
  5. Yang, SM; Huang, CJ; Chen, CH; Yu, WC; Sung, SH; Guo, CY; Chuang, SY; Cheng, HM; Chiang, CE. [Network meta-analysis and trial sequential analysis for atrial fibrillation patients receiving PCI or with ACS](#). Journal of the Chinese Medical Association. 2021 Nov 9; Article in Press.
  6. Yen, FS; Lo, YR; Hwu, CM; Hsu, CC. [Early-onset type 2 diabetes <60 years and risk of vascular complications](#). Diabetes Research and Clinical Practice. 2021 Dec; 182: Article number 109129.
  7. Wu, TG; Chen, YD; Chen, BH; Harada, KH; Lee, K; Deng, F; Rood, MJ; Chen, CC; Tran, CT; Chien, KL; Wen, TH; Wu, CF. [Identifying low-PM\(2.5\) exposure commuting routes for cyclists through modeling with the random forest algorithm based on low-cost sensor measurements in three asian cities](#). Environmental Pollution. 2021 Nov 27; 294: Article number 118597.
  8. Chen, CH; Tsai, MK; Wen, C; Wen, CP. [A user-friendly objective prediction model in predicting colorectal cancer based on 234 044 Asian adults in a prospective cohort](#). ESMO Open. 2021 Dec; 6(6): Article number 100288.

9. Shu, CC; Lee, JH; Tsai, MK; Su, TC; Wen, CP. [The ability of physical activity in reducing mortality risks and cardiovascular loading and in extending life expectancy in patients with COPD](#). Scientific Reports. 2021 Nov 4; 11: Article number 21674.
10. Burke, RM; Shih, S; Hsiung, CA; Yen, C; Jiang, B; Parashar, UD; Tate, JE; Wu, FT; Huang, YC. [Impact of rotavirus vaccination on rotavirus hospitalizations in Taiwanese children](#). Vaccine. 2021 Dec 3; 39(49): 7135-7139.
11. Wei, FC; Hsu, CK; Wu, YL; Liao, JY; Huang, CH; Hsiung, CA; Yu, SJ; Lin, CP; Chen, PJ. [Reliability and validity of the traditional Chinese version of the advance care planning engagement survey: A pilot evaluation in Taiwanese outpatients](#). Journal of Palliative Care. 2021 Nov 17; Article in Press.
12. Chen, TY; Liu, CH; Chen, TH; Lin, KMC; Chen, MR; Liu, SW; Lin, P. [Conditioned media of adipose-derived stem cells suppresses sidestream cigarette smoke extract induced cell death and epithelial-mesenchymal transition in lung epithelial cells](#). International Journal of Molecular Sciences. 2021 Nov 8; 22(21): Article number 12069

### **National Institute of Cancer Research**

1. Shiah, SG; Chou, ST; Chang, JY. [MicroRNAs: Their role in metabolism, tumor microenvironment, and therapeutic implications in head and neck squamous cell carcinoma](#). Cancers. 2021 Nov 9; 13(22): Article number 5604.
2. Kurniawan, AL; Yang, YL; Hsu, CY; Paramastri, R; Lee, HA; Ni, PY; Chin, MY; Chao, JCJ. [Association between metabolic parameters and risks of anemia and electrolyte disturbances among stages 3–5 chronic kidney disease patients in Taiwan](#). BMC Nephrology. 2021 Nov 17; 22: Article number 385.
3. Lin, HY; Wu, HJ; Chen, SY; Hou, MF; Lin, CS; Chu, PY. [Epigenetic therapy combination of UNC0638 and CI-994 suppresses breast cancer via epigenetic remodeling of BIRC5 and GADD45A](#). Biomedicine and Pharmacotherapy. 2021 Nov 16; 145: Article number 112431.
4. Ko, CJ; Gao, SL; Lin, TK; Chu, PY; Lin, HY. [Ferroptosis as a major factor and therapeutic target for neuroinflammation in Parkinson's disease](#). Biomedicines. 2021 Nov 12; 9(11): Article number 1679.

5. Tseng, CC; Lin, YZ; Lin, CH; Hwang, DY; Li, RN; Tsai, WC; Ou, TT; Wu, CC; Lin, YC; Sung, WY; Chen, KY; Chang, SJ; Yen, JH. [Genetic and epigenetic alterations of cyclic AMP response element modulator in rheumatoid arthritis](#). European Journal of Clinical Investigation. 2021 Nov 16; Article in Press: Article number e13715.
6. Hu, HM; Tsai, HJ; Ku, HY; Lo, SS; Shan, YS; Chang, HC; Chao, Y; Chen, JS; Chen, SC; Chiang, CJ; Li, AF; Wang, HP; Wang, TE; Bai, LY; Wu, MS; Chen, LT; Liu, TW; Yang, YH. [Survival outcomes of management in metastatic gastric adenocarcinoma patients](#). Scientific Reports. 2021 Nov 30; 11: Article number 23142.
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8. Wang, Y; Chu, TS; Lin, YR; Tsao, CH; Tsai, CH; Ger, TR; Chen, LT; Chang, WSW; Liao, LD. [Assessment of brain functional activity using a miniaturized head-mounted scanning photoacoustic imaging system in awake and freely moving rats](#). Biosensors. 2021 Oct 30; 11(11): Article number 429.

## National Institute of Environmental Health Sciences

1. Tsai, YS; Wang, DY; Chang, JJ; Liang, KT; Lin, YH; Kuo, CC; Lu, SH; Wu, YS; Lee, LJ; Chen, H; Wu, DS. [Incorporation of au nanoparticles on ZnO/ZnS core shell nanostructures for UV Light/Hydrogen gas dual sensing enhancement](#). Membranes. 2021 Nov 22; 11(11): Article number 903.
2. Hou, WH; Kuo, KN; Chen, MJ; Chang, YM; Tsai, HW; Chan, DC; Su, CT; Han, DS; Shen, HN; Li, CY. [Simple scoring algorithm to identify community-dwelling older adults with limited health literacy: A cross-sectional study in Taiwan](#). BMJ Open. 2021 Nov 25; 11(11): Article number e045411.
3. Wang, YC; Wang, CC; Yao, YH; Wu, WT. [Identification of a high-risk group of new-onset cardiovascular disease in occupational drivers by analyzing heart rate variability](#).

- International Journal of Environmental Research and Public Health. 2021 Oct 31; 18(21): Article number 11486.
4. Lin, P; Nan, FH; Ling, MP. [Dietary exposure of the Taiwan population to mercury content in various seafood assessed by a total diet study](#). International Journal of Environmental Research and Public Health. 2021 Nov 21; 18(22): Article number 12227.
  5. Tai, SY; Wu, JY; Lee, LJH; Lu, TH. [Which ICD-9 codes were assigned for malignant mesothelioma in the mortality data in the United States before the ICD-10 was introduced?](#). American Journal of Industrial Medicine. 2021 Nov 15; Article in Press.
  6. Chen, TY; Liu, CH; Chen, TH; Lin, KMC; Chen, MR; Liu, SW; Lin, P. [Conditioned media of adipose-derived stem cells suppresses sidestream cigarette smoke extract induced cell death and epithelial-mesenchymal transition in lung epithelial cells](#). International Journal of Molecular Sciences. 2021 Nov 8; 22(21): Article number 12069.

### **National Institute of Infectious Diseases and Vaccinology**

1. Jhan, MK; Chen, CL; Shen, TJ; Tseng, PC; Wang, YT; Satria, RD; Yu, CY; Lin, CF. [Polarization of type 1 macrophages is associated with the severity of viral encephalitis caused by Japanese encephalitis virus and dengue virus](#). Cells. 2021 Nov 15; 10(11): Article number 3181.
2. Yin, T; Lai, JJ; Huang, WC; Kuo, SC; Chiang, TT; Yang, YS; the ACTION study Group. [In vitro and in vivo comparison of eravacycline- and tigecycline-based combination therapies for tigecycline-resistant Acinetobacter baumannii](#). Journal of Chemotherapy. 2021 Nov 25; Article in Press.
3. Fang, SB; Lauderdale, TLY; Huang, CH; Chang, PR; Wang, YH; Shigemura, K; Lin, YH; Chang, WC; Wang, KC; Huang, TW; Chang, YC. [Genotypic diversity of ciprofloxacin nonsusceptibility and its relationship with minimum inhibitory concentrations in nontyphoidal salmonella clinical isolates in Taiwan](#). Antibiotics. 2021 Nov 11; 10(11): Article number 1383.

## Center for Neuropsychiatric Research

1. Lin, PY; Cheng, C; Satyanarayanan, SK; Chiu, LT; Chien, YC; Chuu, CP; Lan, TH; Su, KP. [Omega-3 fatty acids and blood-based biomarkers in Alzheimer's disease and mild cognitive impairment: A randomized placebo-controlled trial](#). Brain, Behavior, and Immunity. 2022 Jan; 99: 289-298.
2. Chen, SC; Chen, H; Yu, SJ; Chen, YH; Wang, Y. [Alleviation of methamphetamine sensitization by partially lesioning dopaminergic terminals with 6-hydroxydopamine in nucleus accumbens](#). Cell Transplantation. 2021 Nov 8; 30: Article in Press.
3. Yang, CC; Lan, TH; Tsai, WC; Guo, MC; Ng, YY; Wu, SC. [The effectiveness of pay-for-performance program of diabetes care for psychiatric patients: A regional psychiatric hospital experience](#). Healthcare. 2021 Nov 17; 9(11): Article number 1565.
4. Chen, WJ; Chen, CY; Wu, SC; Wu, KCC; Jou, S; Tung, YC; Lu, TP. [The impact of Taiwan's implementation of a nationwide harm reduction program in 2006 on the use of various illicit drugs: Trend analysis of first-time offenders from 2001 to 2017](#). Harm Reduction Journal. 2021 Nov 19; 18: Article number 117.

## Immunology Research Center

1. Chang, CS; Liao, YC; Huang, CT; Lin, CM; Cheung, CHY; Ruan, JW; Yu, WH; Tsai, YT; Lin, IJ; Huang, CH; Liou, JS; Chou, YH; Chien, HJ; Chuang, HL; Juan, HF; Huang, HC; Chan, HL; Liao, YC; Tang, SC; Su, YW; Tan, TH; Bäuml, AJ; Kao, CY. [Identification of a gut microbiota member that ameliorates DSS-induced colitis in intestinal barrier enhanced Dusp6-deficient mice](#). Cell Reports. 2021 Nov 23; 37(8): Article number 110016.

## National Center for Geriatrics and Welfare Research

1. Chang, HL; Chao, SC; Lee, MT; Lin, HY. [Micropulse transscleral cyclophotocoagulation as primary surgical treatment for primary open angle glaucoma in Taiwan during the covid-19 pandemic](#). Healthcare. 2021 Nov 17; 9(11): Article number 1563.



## NHRI Graduate Student Program

1. Wu, CC; Lee, CH; Hsu, TW; Yeh, CC; Lin, MC; Chang, CM; Tsai, JH. [Is colectomy associated with the risk of type 2 diabetes in patients without colorectal cancer? A population-based cohort study.](#) Journal of Clinical Medicine. 2021 Nov 15; 10(22): Article number 5313.
2. Lee, WJ; Tu, SH; Cheng, TC; Lin, JH; Sheu, MT; Kuo, CC; Changou, CA; Wu, CH; Chang, HW; Chang, HL; Chen, LC; Ho, YS. [Type-3 hyaluronan synthase attenuates tumor cells invasion in human mammary parenchymal tissues.](#) Molecules. 2021 Oct 29; 26(21): Article number 6548.

## Technology Transfer and Incubation Center

1. Lin, LS; Huang, LH; Chang, YC; Wang, CL; Lee, LC; Hu, CC; Hsu, PS; Chu, WM. [Trend analysis of palliative care consultation service for terminally ill non-cancer patients in Taiwan: A 9-year observational study.](#) BMC Palliative Care. 2021 Nov 25; 20: Article number 181.