

NHRI Publication _ Feb 2020

Institute of Biomedical Engineering and Nanomedicine

1. Yu, SJ; Wu, KJ; Bae, E; Wang, YS; Chiang, CW; Kuo, LW; Harvey, BK; Greig, NH; Wang, Y. [Post-treatment with posiphen reduces endoplasmic reticulum stress and neurodegeneration in stroke brain](#). *iScience*. 2020 Feb 21; 23(2): Article number 100866.
2. Chang, HC; Lin, CH; Juang, DS; Hsu, CH. [A 3D culture combinatorial drug screening device](#). *21st International Conference on Miniaturized Systems for Chemistry and Life Sciences, MicroTAS 2017*. 2020 Feb: 1537-1538.
3. He, RY; Lai, XM; Sun, CS; Kung, TS; Hong, JY; Jheng, YS; Liao, WN; Chen, JK; Liao, YF; Tu, PH; Huang, JJ. [Nanosopic insights of amphiphilic peptide against the oligomer assembly process to treat Huntington's disease](#). *Advanced Science*. 2020 Jan; 7(2): Article number 1901165.
4. Huang, KW; Hsu, FF; Qiu, JTT; Chern, GJ; Lee, YA; Chang, CC; Huang, YT; Sung, YC; Chiang, CC; Huang, RL; Lin, CC; Dinh, TK; Huang, HC; Shih, YC; Alson, D; Lin, CY; Lin, YC; Chang, PC; Lin, SY; Chen, YC. [Highly efficient and tumor-selective nanoparticles for dual-targeted immunogene therapy against cancer](#). *Science Advances*. 2020 Jan; 6(3): Article number eaax5032.
5. Su, YL; Kuo, LW; Hsu, CH; Chiang, CS; Lu, YJ; Chang, SJ; Hu, SH. [Rabies virus glycoprotein-amplified hierarchical targeted hybrids capable of magneto-electric penetration delivery to orthotopic brain tumor](#). *Journal of Controlled Release*. 2020 May 10; 321: 159-173.
6. Sun, YJ; Hsu, CH; Ling, TY; Liu, L; Lin, TC; Jakfar, S; Young, IC; Lin, FH. [The preparation of cell-containing microbubble scaffolds to mimic alveoli structure as 3D drug screening system for lung cancer](#). *Biofabrication*. 2020 Feb 21; Article in Press.
7. L, SW; Lee, CH; Lin, MS; Chi, CW; Chen, YJ; Wang, GS; Liao, KW; Chiu, LP; Wu, SH; Huang, DM; Chen, L; Shen, YS. [ZnO nanoparticles induced caspase-dependent apoptosis in gingival squamous cell carcinoma through mitochondrial dysfunction and](#)

- [p70S6K signaling pathway](#). *International Journal of Molecular Sciences*. 2020 Feb 26; 21(5): Article number 1612.
8. Huang, YM; Lin, YC; Chen, CY; Hsieh, YY; Liaw, CK; Huang, SW; Tsuang, YH; Chen, CH; Lin, FH. [Thermosensitive chitosan-gelatin-glycerol phosphate hydrogels as collagenase carrier for tendon-bone healing in a rabbit model](#). *Polymers*. 2020 Feb 13; 12(2): Article number 436.
9. Fang, CH; Tsai, CC; Shyong, YJ; Yang, CT; Li, KY; Lin, YW; Chang, KC; Wang, MH; Wu, TM; Lin, FH. [Effects of highly oxygenated water in a hyperuricemia rat model](#). *Journal of Healthcare Engineering*. 2020 Jan 31; 2020: Article number 1323270.

Institute of Biotechnology and Pharmaceutical Research

1. Peng, YH; Liao, FY; Tseng, CT; Kuppasamy, R; Li, AS; Chen, CH; Fan, YS; Wang, SY; Wu, MH; Hsueh, CC; Chang, JY; Lee, LC; Shih, C; Shia, KS; Yeh, TK; Hung, MS; Kuo, CC; Song, JS; Wu, SY; Ueng, SH. [Unique sulfur-aromatic interactions contribute to the binding of potent imidazothiazole indoleamine 2,3-Dioxygenase inhibitors](#). *Journal of Medicinal Chemistry*. 2020 Feb 10; 63(4): 1642-1659.
2. Huang, YH; Wu, YW; Chuang, JY; Chang, YC; Chang, HF; Tao, PL; Loh, HH; Yeh, SH. [Morphine produces potent antinociception, sedation, and hypothermia in humanized mice expressing human mu opioid receptor splice variants](#). *Pain*. 2020 Feb 6; Article in Press.
3. Chen, YJ; Tsai, CY; Cheng, YM; Nieh, SW; Yeh, TK; Chen, CP; Wang, MH; Chou, LH; Chiu, TY; Liu, L; Ho, C; Chen, CT; Liu, TW. [Impacts of intralipid on nanodrug abraxane therapy and on the innate immune system](#). *Scientific Reports*. 2020 Feb 18; 10: Article number 2838.

Institute of Cellular and Systems Medicine

1. Yet, SF. [Dual-specificity phosphatase 6 deficiency protects against intimal hyperplasia after arterial injury](#). *Circulation Research*. 2019 Aug; 125(Suppl. 1): Abstract number 777.
2. Huang, NC; Lee, CM; Hsu, SH. [Effective naked plasmid DNA delivery into stem cells by](#)

- [microextrusion-based transient-transfection system for in situ cardiac repair](#). *Cytotherapy*. 2020 Feb; 22(2): 70-81.
3. Chang, CY; Liang, MZ; Wu, CC; Huang, PY; Chen, HI; Yet, SF; Tsai, JW; Kao, CF; Chen, L. [WNT3A promotes neuronal regeneration upon traumatic brain injury](#). *International Journal of Molecular Sciences*. 2020 Feb 21; 21(4): Article number 1463.

Institute of Molecular and Genomic Medicine

1. Chen, LM; Tseng, HY; Chen, YA; Al Haq, AT; Hwang, PA; Hsu, HL. [Oligo-fucoidan prevents M2 macrophage differentiation and HCT116 tumor progression](#). *Cancers*. 2020 Feb 12; 12(2): Article number 421.
2. Hsiao, WY; Wang, YT; Wang, SW. [Fission yeast Puf2, a Pumilio and FBF family of RNA-binding protein, links stress granules to processing bodies](#). *Molecular and Cellular Biology*. 2020 Feb 18; Article in Press.

Institute of Population Health Sciences

1. Wu, CS; Luedtke, AR; Sadikova, E; Tsai, HJ; Liao, SC; Liu, CC; Gau, SS; VanderWeele, TJ; Kessler, RC. [Development and validation of a machine learning individualized treatment rule in first-episode schizophrenia](#). *JAMA Network Open*. 2020 Feb 5; 3(2): Article number e1921660.
2. Huang, SH; Hu, YF; Chen, PF; Lin, YJ; Chang, SL; Lo, LW; Chung, FP; Tuan, TC; Chao, TF; Liao, JN; Chang, TY; Lin, CY; Liu, CM; Huang, TC; Vicera, JJB; Lee, PT; Lugtu, IC; Jain, A; Wu, IC; Chen, SA. [The presence of ectopic atrial rhythm predicts adverse cardiovascular outcomes in a large hospital-based population](#). *Heart Rhythm*. 2020 Feb 3; Article in Press.
3. Liou, CH; Wu, HC; Liao, YC; Yang Lauderdale, TL; Huang, IW; Chen, FJ. [nanoMLST: Accurate multilocus sequence typing using Oxford Nanopore Technologies MinION with a dual-barcode approach to multiplex large numbers of samples](#). *Microbial Genomics*. 2020 Feb 17; Article in Press.
4. Pan, CT; Liao, CW; Tsai, CH; Chen, ZW; Chen, L; Hung, CS; Liu, YC; Lin, PC; Chang,

- CC; Chang, YY; Wu, VC; Lin, YH. [Influence of different treatment strategies on new-onset atrial fibrillation among patients with primary aldosteronism: A nationwide longitudinal cohort-based study](#). *Journal of the American Heart Association*. 2020 Mar 3; 9(5): Article number e013699.
5. Ruan, SY; Teng, NC; Huang, CT; Tsai, SL; Wang, CY; Wu, CP; Hsu, JY; Yu, CJ; Hsiung, C; Wu, HD; Chen, L. [Dynamic changes in prognosis with elapsed time on ventilators among mechanically ventilated patients](#). *Annals of the American Thoracic Society*. 2020 Feb 3; Article in Press.
6. Chen, JF; Chen, HS; Chu, CH; Chuang, LM; Ho, LT; Hsu, CC; Huang, LC; et al.. [Executive summary of the DAROC clinical practice guidelines for diabetes care-2018 Diabetes Association of the Republic of China \(Taiwan\)](#). *Journal of the Formosan Medical Association*. 2020 Feb; 119(2): 577-586.
7. Chien, JW; Chen, CY; Lin, SH; Lin, SW; Lin, YH. [Cardiac autonomic modulation during on-call duty under working hours restriction](#). *International Journal of Environmental Research and Public Health*. 2020 Feb 10; 17(3): Article number 1118.
8. Twu, CW; Wang, WY; Tsou, HH; Liu, YC; Jiang, RS; Liang, KL; Lin, PJ; Lin, TY; Chen, HH; Lin, JC. [Effects of Epstein-Barr virus viral load and different treatment modality for stage III nasopharyngeal carcinoma](#). *Head and Neck-Journal for the Sciences and Specialties of the Head and Neck*. 2020 Feb 3; Article in Press.
9. Su, CW; Wu, CY; Lin, JT; Ho, HJ; Wu, JC. [Nucleos\(t\)ide analogue continuous therapy associated with reduced adverse outcomes of chronic hepatitis B](#). *Journal of the Chinese Medical Association*. 2020 Feb; 83(2): 125-133.

National Institute of Cancer Research

1. Chen, LT; Martinelli, E; Cheng, AL; Pentheroudakis, G; Qin, S; Bhattacharyya, GS; Ikeda, M; Lim, HY; Ho, GF; Choo, SP; Ren, Z; Malhotra, H; Ueno, M; Ryoo, BY; Kiang, TC; Tai, D; Vogel, A; Cervantes, A; Lu, SN; Yen, CJ; Huang, YH; Chen, SC; Hsu, C; Shen, YC; Taberero, J; Yen, Y; Hsu, CH; Yoshino, T; Douillard, JY. Pan-Asian adapted ESMO Clinical Practice [Guidelines for the management of patients with](#)

- [intermediate and advanced/relapsed hepatocellular carcinoma: A TOS-ESMO initiative endorsed by CSCO, ISMPO, JSMO, KSMO, MOS and SSO](#). *Annals of Oncology*. 2020 Mar; 31(3): 334-351.
2. Cheung, CHA; Chang, YC; Lin, TY; Cheng, SM; Leung, E. [Anti-apoptotic proteins in the autophagic world: An update on functions of XIAP, Survivin, and BRUCE](#). *Journal of Biomedical Science*. 2020 Feb 5; 27: Article number 31.
 3. Simon, J; Liu, Z; Brenner, N; Yu, KJ; Hsu, WL; Wang, CP; Chien, YC; Coghill, AE; Chen, CJ; Butt, J; Proietti, C; Doolan, DL; Hildesheim, A; Waterboer, T. [Validation of an EBV antibody risk stratification signature for nasopharyngeal carcinoma using multiplex serology](#). *Journal of Clinical Microbiology*. 2020 Feb 26; Article in Press.
 4. Chen, YJ; Tsai, CY; Cheng, YM; Nieh, SW; Yeh, TK; Chen, CP; Wang, MH; Chou, LH; Chiu, TY; Liu, L; Ho, C; Chen, CT; Liu, TW. [Impacts of intralipid on nanodrug abraxane therapy and on the innate immune system](#). *Scientific Reports*. 2020 Feb 18; 10: Article number 2838.
 5. Lai, CH; Chang, JY; Wang, KC; Lee, FT; Wu, HL; Cheng, TL. [Pharmacological inhibition of cathepsin S suppresses abdominal aortic aneurysm in mice](#). *European Journal of Vascular and Endovascular Surgery*. 2020 Feb 4; Article in Press.
 6. Pao, TH; Chang, WL; Chiang, NJ; Lin, CY; Lai, WW; Tseng, YL; Lin, FC. [Pericardial effusion after definitive concurrent chemotherapy and intensity modulated radiotherapy for esophageal cancer](#). *Radiation Oncology*. 2020 Feb 27; 15: Article number 48.
 7. Huang, HW; Wu, PY; Su, PF; Li, CI; Yeh, YM; Lin, PC; Hsu, KF; Shen, MR; Chang, JY; Lin, CCK. [A simplified diagnostic classification scheme of chemotherapy-induced peripheral neuropathy](#). *Disease Markers*. 2020 Jan; 2020: Article number 3402108.
 8. Su, CW; Wu, CY; Lin, JT; Ho, HJ; Wu, JC. [Nucleos\(t\)ide analogue continuous therapy associated with reduced adverse outcomes of chronic hepatitis B](#). *Journal of the Chinese Medical Association*. 2020 Feb; 83(2): 125-133.
 9. Kuo, HY; Chiang, NJ; Chuang, CH; Chen, CY; Wu, IC; Chang, TT; Tsai, HM; Lin, YJ. [Impact of immune checkpoint inhibitors with or without a combination of tyrosine kinase inhibitors on organ-specific efficacy and macrovascular invasion in advanced](#)

[hepatocellular carcinoma](#). *Oncology Research and Treatment*. 2020 Feb 26; Article in Press.

National Institute of Environmental Health Sciences

1. Chuang, SC; Chen, HC; Sun, CW; Chen, YA; Wang, YH; Chiang, CJ; Chen, CC; Wang, SL; Chen, CJ; Hsiung, CA. [Phthalate exposure and prostate cancer in a population-based nested case-control study](#). *Environmental Research*. 2020 Feb;181:Article number 108902.
2. Tan, YQ; Rashid, SKA; Pan, WC; Chen, YC; Yu, LE; Seow, WJ. [Association between microenvironment air quality and cardiovascular health outcomes](#). *Science of the Total Environment*. 2020 May 10; 716: Article number 137027.
3. Huang, CC; Pan, SC; Chen, BY; Guo, YL. [Periconceptional exposure to air pollution and congenital hypospadias among full-term infants](#). *Environmental Research*. 2020 Apr; 183: Article number 109151.
4. Tsai, PJ; Young, LH; Hwang, BF; Lin, MY; Chen, YC; Hsu, HT. [Source and health risk apportionment for PM2.5 collected in Sha-Lu area, Taiwan](#). *Atmospheric Pollution Research*. 2020 Jan 28; Article in Press.

National Institute of Infectious Diseases and Vaccinology

1. Liou, CH; Wu, HC; Liao, YC; Yang Lauderdale, TL; Huang, IW; Chen, FJ. [nanoMLST: Accurate multilocus sequence typing using Oxford Nanopore Technologies MinION with a dual-barcode approach to multiplex large numbers of samples](#). *Microbial Genomics*. 2020 Feb 17; Article in Press.
2. Chiu, CH; Lee, YT; Lin, YC; Kuo, SC; Yang, YS; Wang, YC; Liu, YH; Lin, JC; Chang, FY; Chen, TL. [Bacterial membrane vesicles from *Acinetobacter baumannii* induced by ceftazidime are more virulent than those induced by imipenem](#). *Virulence*. 2020 Feb 11; 11(1): 145-158.
3. Tsai, YK; Liou, CH; Lin, JC; Fung, CP; Chang, FY; Siu, LK. [Effects of different mechanisms on antimicrobial resistance in *Acinetobacter baumannii*: A strategic system](#)

- [for the screening and activity testing of new antibiotics](#). *International Journal of Antimicrobial Agents*. 2020 Jan 30; Article in Press.
- Chen, YH; Huang, KA; Huang, YC; Chi, H; Lu, CY; Chang, LY; Ho, YH; Chi, CY; Liu, CC; Huang, LM; Yang, TYO; Huang, YC. [Prevalence and molecular characterizations of *Staphylococcus aureus* nasal colonization among patients in pediatric intensive care units in Taiwan](#). *Antimicrobial Resistance and Infection Control*. 2020 Feb 27; 9: Article number 41.
 - Lai, CC; Weng, TC; Chen, PL; Tseng, YF; Lin, CY; Chia, MY; Sung, WC; Lee, MS; Hu, AY. [Development and characterization of standard reagents for cell-based prepandemic influenza vaccine products](#). *Human Vaccines and Immunotherapeutics*. 2020 Mar 2; Article in Press.

National Mosquito-Borne Diseases Control Research Center

- Yang, MH; Chen, M; Mo, HH; Tsai, WC; Chang, YC; Chang, CC; Chen, KC; Wu, HY; Yuan, CH; Lee, CH; Chen, YA; Tyan, YC. [Utilizing experimental mouse model to identify effectors of hepatocellular carcinoma induced by HBx antigen](#). *Cancers*. 2020 Feb 10; 12(2): Article number 409.
- Tsai, JJ; Liu, WL; Lin, PC; Huang, BY; Tsai, CY; Chou, PH; Lee, FC; Ping, CF; Lee, PYA; Liu, LT; Chen, CH. [An RT-PCR panel for rapid serotyping of dengue virus serotypes 1 to 4 in human serum and mosquito on a field-deployable PCR system](#). *American Journal of Tropical Medicine and Hygiene*. 2019 Nov; 101(5, Suppl.): 60.

Center for Neuropsychiatric Research

- Yu, SJ; Wu, KJ; Bae, E; Wang, YS; Chiang, CW; Kuo, LW; Harvey, BK; Greig, NH; Wang, Y. [Post-treatment with posiphen reduces endoplasmic reticulum stress and neurodegeneration in stroke brain](#). *iScience*. 2020 Feb 21; 23(2): Article number 100866.
- Huang, YH; Wu, YW; Chuang, JY; Chang, YC; Chang, HF; Tao, PL; Loh, HH; Yeh, SH. [Morphine produces potent antinociception, sedation, and hypothermia in humanized mice expressing human mu opioid receptor splice variants](#). *Pain*. 2020 Feb 6; Article in Press.

Graduate Student Program

1. Huang, YH; Wu, YW; Chuang, JY; Chang, YC; Chang, HF; Tao, PL; Loh, HH; Yeh, SH. [Morphine produces potent antinociception, sedation, and hypothermia in humanized mice expressing human mu opioid receptor splice variants](#). *Pain*. 2020 Feb 6; Article in Press.