

NHRI Publication _March 2021

Institute of Biomedical Engineering and Nanomedicine

1. Rodoplu, D; Chang, CS; Kao, CY; Hsu, CH. [A simple magnetic-assisted microfluidic method for rapid detection and phenotypic characterization of ultralow concentrations of bacteria](#). *Talanta*. 2021 Aug 1; 230: Article number 122291.
2. Huang, HT; Ho, CH; Sung, HY; Lee, LY; Chen, WP; Chen, YW; Chen, CC; Yang, CS; Tzeng, SF. [Hericium erinaceus mycelium and its small bioactive compounds promote oligodendrocyte maturation with an increase in myelin basic protein](#). *Scientific Reports*. 2021 Mar 22; 11: Article number 6551.
3. Chen, WY; Lin, FH. [Oxidized hyaluronic acid hydrogels as a carrier for constant-release clenbuterol against high-fat diet-induced obesity in mice](#). *Frontiers in Endocrinology*. 2021 Mar; 12: Article number 572690.
4. Jakfar, S; Lin, TC; Wu, SC; Wang, YH; Sun, YJ; Thacker, M; Liu, LX; Lin, FH. [New design to remove leukocytes from platelet-rich plasma \(PRP\) based on cell dimension rather than density](#). *Bioactive Materials*. 2021 Oct; 6(10): 3528-3540.
5. Liang, YJ; Hong, JY; Yang, IH; Zhou, XR; Lin, YW; Lin, TC; Hou, CH; Lin, FH. [To synthesize hydroxyapatite by modified low temperature method loaded with bletilia striata polysaccharide as antioxidant for the prevention of sarcopenia by intramuscular administration](#). *Antioxidants*. 2021 Mar; 10(3): Article number 488.
6. Wu, MS; Kuo, YP; Lo, YC; Tsai, DJ; Lai, CY; Chuang, TH; Lin, SY; Tsai, WT; Chung, PJ; Yu, GY. [Type I interferon signaling accelerates liver regeneration by metabolic modulation in noninfectious Conditions](#). *American Journal of Pathology*. 2021 Mar 19; Article in Press.

Institute of Biotechnology and Pharmaceutical Research

1. Tang, YC; Hsiao, JR; Jiang, SS; Chang, JY; Chu, PY; Liu, KJ; Fang, HL; Lin, LM; Chen, HH; Huang, YW; Chen, YT; Tsai, FY; Lin, SF; Chuang, YJ; Kuo, CC. [c-MYC-](#)

- [directed NRF2 drives malignant progression of head and neck cancer via glucose-6-phosphate dehydrogenase and transketolase activation](#). *Theranostics*. 2021 Mar 11; 11(11): 5232-5247.
2. Chen, SJ; Chen, LH; Yeh, YM; Lin, CCK; Lin, PC; Huang, HW; Shen, MR; Lin, BW; Lee, JC; Lee, CC; Lee, YF; Chiang, HC; Chang, JY. [Targeting lysosomal cysteine protease cathepsin S reveals immunomodulatory therapeutic strategy for oxaliplatin-induced peripheral neuropathy](#). *Theranostics*. 2021 Mar 4; 11(10): 4672-4687.
 3. Huynh, TH; Lee, GH; Tanaka, J; Hsieh, HP; Kelvin Tsou, L; Zhang, MM; Kuo, TJ; Wen, ZH; Lu, CK; Sung, PJ. [Chlorinated briarane diterpenoids from octocoral *Briareum stechei* \(Kükenthal, 1908\)](#). *Tetrahedron Letters*. 2021 Apr 13; 69: Article number 152976.
 4. Hieda, M; Matsumoto, T; Isobe, M; Kurono, S; Yuka, K; Kametaka, S; Wang, JY; Chi, YH; Kameda, K; Kimura, H; Matsuura, N; Matsuura, S. [The SUN2-nesprin-2 LINC complex and KIF20A function in the Golgi dispersal](#). *Scientific Reports*. 2021 Mar 8; 11: Article number 5358.
 5. Lai, YH; Mondal, S; Su, HT; Huang, SC; Wu, MH; Huang, I; Yang Lauderdale, TL; Song, JS; Shia, KS; Mong, KK. [Total synthesis of landomycins Q and R and related core structures for exploration of the cytotoxicity and antibacterial properties](#). *RSC Advances*. 2021 Mar 2; 11(16): 9426-9432.
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 7. Lin, JJ; Chung, PJ; Dai, SS; Tsai, WT; Lin, YF; Kuo, YP; Tsai, KN; Chien, CH; Tsai, DJ; Wu, MS; Shu, PY; Yueh, A; Chen, HW; Chen, CH; Yu, GY. [Aggressive organ penetration and high vector transmissibility of epidemic dengue virus-2 Cosmopolitan genotype in a transmission mouse model](#). *PLoS Pathogens*. 2021 Mar 30; 17(3): Article number e1009480.

8. Reddy, JS; Chen, CM; Coumar, MS; Sun, HY; Sun, N; Hsieh, HP. [Development of a robust scale-up synthetic route for BPR1K871: A clinical candidate for the treatment of acute myeloid leukemia and solid tumors.](#) *Organic Process Research and Development.* 2021 Feb 18; Article in Press.
9. Lee, WJ; Cheng, TC; Yen, Y; Fang, CL; Liao, YC; Kuo, CC; Tu, SH; Lin, LC; Chang, HW; Chen, LC; Ho, YS. [Tea polyphenol epigallocatechin-3-gallate inhibits cell proliferation in a patient-derived triple-negative breast cancer xenograft mouse model via inhibition of proline-dehydrogenase-induced effects.](#) *Journal of Food and Drug Analysis.* 2021 Mar 15; 29(1): 113-127.
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Institute of Cellular and Systems Medicine

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2. Wei, SY; Chiu, JJ. [Mechanical regulation of epigenetic modifications in vascular biology and pathobiology.](#) *Cardiac and Vascular Biology.* 2021 Mar 11; 8: 241-276.
3. Huang, SC; Kao, YH; Shih, SF; Tsai, MC; Lin, CS; Chen, LW; Chuang, YP; Tsui, PF; Ho, LJ; Lai, JH; Chen, SJ. [Epigallocatechin-3-gallate exhibits immunomodulatory effects in human primary T cells.](#) *Biochemical and Biophysical Research Communications.* 2021 Apr 23; 550: 70-76.
4. Wong, CW; Pratiwi, FW; Chen, P; Mou, CY; Hsu, SH. [Revealing the phagosomal pH regulation and inflammation of macrophages after endocytosing polyurethane nanoparticles by a ratiometric pH nanosensor.](#) *Advanced Biology.* 2021 Jan; 5(1): Article number e2000200.

Institute of Molecular and Genomic Medicine

1. Chu, CY; Lee, YC; Hsieh, CH; Yeh, CT; Chao, TY; Chen, PH; Lin, IH; Hsieh, TH; Shih, JW; Cheng, CH; Chang, CC; Lin, PS; Huang, YL; Chen, TM; Yen, Y; Ann, DK; Kung, HJ. [Genome-wide CRISPR/Cas9 knockout screening uncovers a novel inflammatory pathway critical for resistance to arginine-deprivation therapy](#). *Theranostics*. 2021 Jan 25; 11(8): 3624-3641.
2. Huynh, TH; Lee, GH; Tanaka, J; Hsieh, HP; Kelvin Tsou, L; Zhang, MM; Kuo, TJ; Wen, ZH; Lu, CK; Sung, PJ. [Chlorinated briarane diterpenoids from octocoral *Briareum stechei* \(Kükenthal, 1908\)](#). *Tetrahedron Letters*. 2021 Apr 13; 69: Article number 152976.
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Institute of Population Health Sciences

1. Chen, YC; Tsai, YH; Wang, CC; Liu, SF; Chen, TW; Fang, WF; Lee, CP; Hsu, PY; Chao, TY; Wu, CC; Wei, YF; Chang, HC; Tsen, CC; Chang, YP; Lin, MC; Yu, CJ; Wang, HC; Chiang, CH; Perng, DW; Cheng, SL; Hsu, JY; Hsu, WH; Hsiue, TR; Lin, HI; Wang, CY; Chang, YC; Chen, CM; Lin, CS; Chen, L; Chong, IW; Taiwan Clinical Trial Consortium of Respiratory Disease Group. [Epigenome-wide association study on asthma and chronic obstructive pulmonary disease overlap reveals aberrant DNA methylations related to clinical phenotypes](#). *Scientific Reports*. 2021 Mar 3; 11: Article number 5022.
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- [clinical benefit of adjuvant chemoradiotherapy in curatively resected pancreatic adenocarcinoma: From a randomized phase III trial.](#) *Radiotherapy and Oncology*. 2021 May; 158: 146-154.
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 6. Bick, AG; Weinstock, JS; Nandakumar, SK; Fulco, CP; Bao, EL; Zekavat, SM; Szeto, MD; Liao, XT; Leventhal, MJ; Nasser, J; Chang, K; Laurie, C; et al.. [Inherited causes of clonal haematopoiesis in 97,691 whole genomes.](#) *Nature*. 2020 Oct; 586: 763-768.
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National Institute of Cancer Research

1. Tang, YC; Hsiao, JR; Jiang, SS; Chang, JY; Chu, PY; Liu, KJ; Fang, HL; Lin, LM; Chen, HH; Huang, YW; Chen, YT; Tsai, FY; Lin, SF; Chuang, YJ; Kuo, CC. [c-MYC-directed NRF2 drives malignant progression of head and neck cancer via glucose-6-phosphate dehydrogenase and transketolase activation.](#) *Theranostics*. 2021 Mar 11; 11(11): 5232-5247.
2. Chen, SJ; Chen, LH; Yeh, YM; Lin, CCK; Lin, PC; Huang, HW; Shen, MR; Lin, BW; Lee, JC; Lee, CC; Lee, YF; Chiang, HC; Chang, JY. [Targeting lysosomal cysteine protease cathepsin S reveals immunomodulatory therapeutic strategy for oxaliplatin-induced peripheral neuropathy.](#) *Theranostics*. 2021 Mar 4; 11(10): 4672-4687.
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8. Boku, N; Satoh, T; Ryu, MH; Chao, Y; Kato, K; Chung, HC; Chen, JS; Muro, K; Kang, WK; Yeh, KH; Yoshikawa, T; Oh, SC; Bai, LY; Tamura, T; Lee, KW; Hamamoto, Y; Kim, JG; Chin, K; Oh, DY; Minashi, K; Cho, JY; Tsuda, M; Nishiyama, T; Chen, LT; Kang, YK. [Nivolumab in previously treated advanced gastric cancer \(ATTRACTION-2\): 3-year update and outcome of treatment beyond progression with nivolumab](#). *Gastric Cancer*. 2021 Mar 20; Article in Press.
9. Wang, SH; Chen, YL; Hsiao, JR; Tsai, FY; Jiang, SS; Lee, AYL; Tsai, HJ; Chen, YW. [IGFBP3 promotes radiosensitivity of OSCC via appositive feedback of NF kappa B/IL-6/ROS signaling](#). *Cancer Science*. 2021 Feb; 112(Suppl. 1): 776.
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National Institute of Environmental Health Sciences

1. Tsao, CY; Tuan, LH; Lee, LJ; Liu, CM; Hwu, HG; Lee, LJ. [Impaired response to sleep deprivation in heterozygous *Disc1* mutant mice](#). *World Journal of Biological Psychiatry*. 2021 Mar 30; Article in Press.
2. Huang, Y; Wen, HJ; Guo, YLL; Wei, TY; Wang, WC; Tsai, SF; Tseng, VS; Wang, SLJ. [Prenatal exposure to air pollutants and childhood atopic dermatitis and allergic rhinitis adopting machine learning approaches: 14-year follow-up birth cohort study](#). *Science of*

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 9. Wong, MY; Rathod, SD; Marino, R; Li, LL; Howarth, RW; Alastuey, A; Alaimo, MG; Barraza, F; Carneiro, MC; Chellam, S; Chen, YC; Cohen, DD; Connelly, D; Dongarra, G; Gomez, D; Hand, J; Harrison, RM; Hopke, PK; Hueglin, C; Kuang, YW; Lambert, F; Liang, JM; Losno, R; Maenhaut, W; Milando, C; Monteiro, MIC; Morera-Gomez, Y; Querol, X; Rodriguez, S; Smichowski, P; Varrica, D; Xiao, YH; Xu, YJ; Mahowald, NM. [Anthropogenic perturbations to the atmospheric molybdenum cycle](#). *Global Biogeochemical Cycles*. 2021 Feb; 35(2): Article number e2020GB006787.

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12. Wong, PY; Lee, HY; Zeng, YT; Chern, YR; Chen, NT; Candice Lung, SC; Su, HJ; Wu, CD. [Using a land use regression model with machine learning to estimate ground level PM_{2.5}](#). *Environmental Pollution*. 2021 May 15; 277: Article number 116846.
13. Huang, HB; Siao, CY; Lo, YTC; Shih, SF; Lu, CH; Huang, PC. [Mediation effects of thyroid function in the associations between phthalate exposure and glucose metabolism in adults](#). *Environmental Pollution*. 2021 Jun; 278: Article number 116799.
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15. Ramanpong, J; Wu, CD; Yu, CP; Tsai, MJ. [A retrospective analysis of injury cases for visitor risk management in a nature-based touristic destination](#). *Current Issues in Tourism*. 2021 Mar 21; Article in Press.
16. Wuputra, K; Tsai, MH; Kato, K; Yang, YH; Pan, JB; Ku, CC; Noguchi, M; Kishikawa, S; Nakade, K; Chen, HL; Liu, CJ; Nakamura, Y; Kuo, KK; Lin, YC; Chan, TF; Wu, DC; Hou, MF; Huang, SK; Lin, CS; Yokoyama, KK. [Dimethyl sulfoxide stimulates the AhR-Jdp2 axis to control ROS accumulation in mouse embryonic fibroblasts](#). *Cell Biology and Toxicology*. 2021 Mar 15; Article in Press.
17. Meng, X; Liu, C; Chen, R; Sera, F; Vicedo-Cabrera, AM; Milojevic, A; Guo, Y; Tong, S; Coelho, M; Saldiva, PHN; Lavigne, E; Correa, PM; Ortega, NV; Osorio, S; Garcia; Kysely, J; Urban, A; Orru, H; Maasikmets, M; Jaakkola, JJK; Rytty, N; Huber, V; Schneider, A; Katsouyanni, K; Analitis, A; Hashizume, M; Honda, Y; Ng, CFS; Nunes,

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National Institute of Infectious Diseases and Vaccinology

1. Chang, YT; Ling, TC; Cheng, YY; Sun, CY; Wu, JL; Tai, CH; Wang, JR; Sung, JM. [Comparison of immunogenicity and safety between a single dose and one booster trivalent inactivated influenza vaccination in patients with chronic kidney disease: A 20-week, open-label trial.](#) *Vaccines.* 2021 Feb 25; 9(3): Article number 192.
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4. Pan, YH; Liao, MY; Chien, YW; Ho, TS; Ko, HY; Yang, CR; Chang, SF; Yu, CY; Lin, SY; Shih, PW; Shu, PY; Chao, DY; Pan, CY; Chen, HM; Perng, GC; Ku, CC; King, CC. [Use of seroprevalence to guide dengue vaccination plans for older adults in a dengue non-endemic country.](#) *PLoS Neglected Tropical Diseases.* 2021 Apr 1; 15(4): Article number e0009312.
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National Mosquito-Borne Diseases Control Research Center

1. Lin, JJ; Chung, PJ; Dai, SS; Tsai, WT; Lin, YF; Kuo, YP; Tsai, KN; Chien, CH; Tsai, DJ; Wu, MS; Shu, PY; Yueh, A; Chen, HW; Chen, CH; Yu, GY. [Aggressive organ](#)

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2. Cheng, L; Liu, WL; Tsou, YT; Li, JC; Chien, CH; Su, MP; Liu, KL; Huang, YL; Wu, SC; Tsai, JJ; Hsieh, SL; Chen, CH. [Transgenic expression of human c-type lectin protein clec18A reduces dengue virus type 2 infectivity in aedes aegypti](#). *Frontiers in Immunology*. 2021 Mar 9; 12: Article number 640367.

Center for Neuropsychiatric Research

1. Liu, YL; Bavato, F; Chung, AN; Liu, TH; Chen, YL; Huang, MC; Quednow, BB. [Neurofilament light chain as novel blood biomarker of disturbed neuroaxonal integrity in patients with ketamine dependence](#). *World Journal of Biological Psychiatry*. 2021 Mar 30; Article in Press.

Immunology Research Center

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