

NHRI Publication _January 2021

Institute of Biomedical Engineering and Nanomedicine

1. Thacker, M; Tseng, CL; Lin, FH. [Substitutes and colloidal system for vitreous replacement and drug delivery: Recent progress and future prospective](#). *Polymers*. 2021 Jan; 13(1): Article number 121.
2. Sun, CK; Ke, CJ; Lin, YW; Lin, FH; Tsai, TH; Sun, JS. [Transglutaminase cross-linked gelatin-alginate-antibacterial hydrogel as the drug delivery-coatings for implant-related infections](#). *Polymers*. 2021 Jan 28; 13(3): Article number 414.
3. Huang, LCS; Le, D; Hsiao, IL; Fritsch-Decker, S; Hald, C; Huang, SC; Chen, JK; Hwu, JR; Weiss, C; Hsu, MH; Delaittre, G. [Boron-rich, cytocompatible block copolymer nanoparticles by polymerization-induced self-assembly](#). *Polymer Chemistry*. 2021 Jan; 12: 50-56.
4. Peng, TY; Chen, MS; Chen, YY; Chen, YJ; Chen, CY; Fang, A; Shao, BJ; Chen, MH; Lin, CK. [Impact of Zr-doped Bi₂O₃ radiopacifier by spray pyrolysis on mineral trioxide aggregate](#). *Materials*. 2021 Jan 19; 14(2): Article number 453.
5. Tu, MC; Huang, SM; Hsu, YH; Yang, JJ; Lin, CY; Kuo, LW. [Discriminating subcortical ischemic vascular disease and Alzheimer's disease by diffusion kurtosis imaging in segregated thalamic regions](#). *Human Brain Mapping*. 2021 Jan 8; Article in Press.
6. Chi, CY; Chen, CY; Huang, JY; Kuan, CY; Lin, YY; Li, CH; Yang, CC; Lin, FH. [Preparation and in-vitro evaluation of Fe₂O₃-doped DP-bioglass in combination with 3D-printing and selective laser sintering process \(3DP-SLS\) for alveolar bone augmentation](#). *Ceramics International*. 2021 Jan 19; Article in Press.
7. Chen, CY; Li, C; Ke, CJ; Sun, JS; Lin, FH. [Kartogenin enhances chondrogenic differentiation of MSCs in 3D tri-copolymer scaffolds and the self-designed bioreactor system](#). *Biomolecules*. 2021 Jan 16; 11(1): Article number 115.
8. Su, CY; Luo, YX; Fang, CH; Fang, HW. [The effects of antioxidant supplements on the inflammatory gene expression of osteoarthritis-like chondrocytes](#). *Applied Sciences-*

Basel. 2021 Jan; 11(1): Article number 329.

Institute of Biotechnology and Pharmaceutical Research

1. Taweesak, P; Thongaram, P; Kraikruan, P; Thanetchaiyakup, A; Chuanopparat, N; Hsieh, HP; Uang, BJ; Ngermmeesri, P. [One-pot synthesis of dibenzo\[b,f\]loxepines and total synthesis of bauhinoxepin C](#). *Journal of Organic Chemistry*. 2021 Jan 15; 86(2): 1955-1963.
2. Shen, ZQ; Huang, YL; Teng, YC; Wang, TW; Kao, CH; Yeh, CH; Tsai, TF. [CISD2 maintains cellular homeostasis](#). *Biochimica et Biophysica Acta - Molecular Cell Research*. 2021 Apr 1868(4): Article number 118954.

Institute of Cellular and Systems Medicine

1. Lin, YS; Tsai, ML; Hsieh, IC; Wen, MS; Wang, CY. [Deficiency of circadian gene cryptochromes in bone marrow-derived cells protects against atherosclerosis in LDLR\(-/-\) mice](#). *The FASEB Journal*. 2021 Feb; 35(2): Article number e21309.
2. Lee, W; Wang, LT; Yen, ML; Hsu, PJ; Lee, YW; Liu, KJ; Lin, KI; Su, YW; Sytwu, HK; Yen, BL. [Resident vs nonresident multipotent mesenchymal stromal cell interactions with B lymphocytes result in disparate outcomes](#). *Stem Cells Translational Medicine*. 2021 Jan 28; Article in Press.
3. Xu, J; Fu, CY; Tsai, YL; Wong, CW; Hsu, SH. [Thermoresponsive and conductive chitosan-polyurethane biocompatible thin films with potential coating application](#). *Polymers*. 2021 Jan 20; 13(3): Article number 326.
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5. Wu, KK. [Control of mesenchymal stromal cell senescence by tryptophan metabolites](#). *International Journal of Molecular Sciences*. 2021 Jan 12; 22(2): Article number 697.
6. Huang, HJ; Chetyrkina, M; Wong, CW; Kraevaya, OA; Zhilenkov, AV; Voronov, II; Wang, PH; Troshin, PA; Hsu, SH. [Identification of potential descriptors of water-soluble](#)

- [fullerene derivatives responsible for antitumor effects on lung cancer cells via QSAR analysis](#). *Computational and Structural Biotechnology Journal*. 2021 Jan 16; 19: 812-825.
7. Hsieh, CT; Ariga, K; Shrestha, LK; Hsu, SH. [Development of MOF reinforcement for structural stability and toughness enhancement of biodegradable bioinks](#). *Biomacromolecules*. 2021 Jan 7; Article in Press.
8. Ma, KS; Chiang, CH; Chen, YW; Wang, LT. [Correspondence to 'Bacterial citrullinated epitopes generated by Porphyromonas gingivalis infection-a missing link for ACPA production'](#). *Annals of the Rheumatic Diseases*. 2021 Jan 12; Article in Press.
9. Liu, Y; Wong, CW; Chang, SW; Hsu, SH. [An injectable, self-healing phenol-functionalized chitosan hydrogel with fast gelling property and visible light-crosslinking capability for 3D printing](#). *Acta Biomaterialia*. 2021 Jan 11; Article in Press.

Institute of Molecular and Genomic Medicine

1. Huang, YS; Tsai, WC; Li, JJ; Chen, PY; Wang, JT; Chen, YT; Chen, FJ; Lauderdale, TL; Chang, SC. [Increasing New Delhi metallo-Beta-lactamase-positive Escherichia coli among carbapenem non-susceptible Enterobacteriaceae in Taiwan during 2016 to 2018](#). *Scientific Reports*. 2021 Jan 28; 11: Article number 2609.
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5. Shen, ZQ; Huang, YL; Teng, YC; Wang, TW; Kao, CH; Yeh, CH; Tsai, TF. [CISD2 maintains cellular homeostasis](#). *Biochimica et Biophysica Acta - Molecular Cell Research*. 2021 Apr 1868(4): Article number 118954.

Institute of Population Health Sciences

1. Lin, MY; Lim, LM; Tsai, SP; Jian, FX; Hwang, SJ; Lin, YH; Chiu, YW. [Low dose ultraviolet B irradiation at 308nm with light-emitting diode device effectively increases serum levels of 25\(OH\)D](#). *Scientific Reports*. 2021 Jan 28; 11: Article number 2583.
2. Liao, CT; Zheng, CM; Lin, YC; Wu, MY; Lin, YF; Hsu, YH; Hsu, CC; Wu, MS. [Aberrant serum parathyroid hormone, calcium, and phosphorus as risk factors for peritonitis in peritoneal dialysis patients](#). *Scientific Reports*. 2021 Jan 13; 11: Article number 1171.
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7. Lin, YH; Chen, CY; Wu, SI. [A systematic review for the efficiency and quality of data collection in the public mental health surveys during the COVID-19 pandemic](#). *Journal of Medical Internet Research*. 2021 Jan 16; Article in Press.
8. Wu, YL; Lin, SH; Lin, YH. [Two-dimensional taxonomy of internet addiction and](#)

- [assessment of smartphone addiction with diagnostic criteria and mobile apps](#). *Journal of Behavioral Addictions*. 2021 Jan 6; 9(4): 928-933.
9. Tsai, HJ; Li, CY; Pan, WC; Yao, TC; Su, HJ; Wu, CD; Chern, YR; Spengler, JD. [The effect of surrounding greenness on type 2 diabetes mellitus: A nationwide population-based cohort in Taiwan](#). *International Journal of Environmental Research and Public Health*. 2021 Jan 1; 18(1): Article number 267.
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 15. Chen, YT; Liu, CL; Chen, CJ; Chen, MH; Chen, CY; Tsao, PN; Chou, HC; Chen, PC. [Association between short-term exposure to air pollution and sudden infant death syndrome](#). *Chemosphere*. 2021 May; 271: Article number 129515.
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 18. Tsai, CF; Hwang, WS; Lee, JJ; Wang, WF; Huang, LC; Huang, LK; Lee, WJ; Sung, PS; Liu, YC; Hsu, CC; Fuh, JL. [Predictors of caregiver burden in aged caregivers of demented older patients](#). *BMC Geriatrics*. 2021 Jan 14; 21: Article number 59.
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 21. Juang, JMJ; Huang, YJ; Chang, IS; Chen, CYJ; Wu, IC; Hsu, CC; Chen, TY; Tseng, WT; Yeh, SFS; Hsiung, CA. [Role of electrocardiographic early repolarization pattern in long-term outcomes of a community-based middle-aged and geriatric ambulatory population: A prospective cohort study](#). *Aging-US*. 2020 Dec; 12(24): 26140-26187.
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National Institute of Cancer Research

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 4. Chen, YJ; Ho, HJ; Wu, CY; Juan, CK; Wu, CY. [Infantile infection and antibiotic exposure in association with pediatric psoriasis development: A nationwide nested case-control study.](#) *Journal of the American Academy of Dermatology.* 2021 Dec 13; Article in Press.
 5. Chen, SH; Huang, WT; Kao, WC; Hsiao, SY; Pan, HY; Fang, CW; Shiue, YL; Chou, CL; Li, CF. [O6-methylguanine-DNA methyltransferase modulates cisplatin-induced DNA double-strand breaks by targeting the homologous recombination pathway in nasopharyngeal carcinoma.](#) *Journal of Biomedical Science.* 2021 Jan 4; 28: Article number 2.
 6. Tanaka, Y; Murata, M; Shen, CH; Furue, M; Ito, T. [NECTIN4: A novel therapeutic target for melanoma.](#) *International Journal of Molecular Sciences.* 2021 Jan 19; 22(2): Article number 976.
 7. Wu, HJ; Chu, PY. [Recent discoveries of macromolecule- and cell-based biomarkers and therapeutic implications in breast cancer.](#) *International Journal of Molecular Sciences.* 2021 Jan 10; 22(2): Article number 636.
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11. Tai, CJ; Tseng, TG; Hsiao, YH; Kuo, TA; Huang, CY; Yang, YH; Lee, MC. [Effects of hearing impairment and hearing aid use on the incidence of cognitive impairment among community-dwelling older adults: Evidence from the Taiwan Longitudinal Study on Aging \(TLISA\).](#) *BMC Geriatrics*. 2021 Jan 22; 21: Article number 76.
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National Institute of Environmental Health Sciences

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National Institute of Infectious Diseases and Vaccinology

1. Lee, W; Wang, LT; Yen, ML; Hsu, PJ; Lee, YW; Liu, KJ; Lin, KI; Su, YW; Sytwu, HK; Yen, BL. [Resident vs nonresident multipotent mesenchymal stromal cell interactions with B lymphocytes result in disparate outcomes](#). *Stem Cells Translational Medicine*. 2021 Jan 28; Article in Press.
2. Huang, YS; Tsai, WC; Li, JJ; Chen, PY; Wang, JT; Chen, YT; Chen, FJ; Lauderdale, TL; Chang, SC. [Increasing New Delhi metallo-Beta-lactamase-positive Escherichia coli among carbapenem non-susceptible Enterobacteriaceae in Taiwan during 2016 to 2018](#). *Scientific Reports*. 2021 Jan 28; 11: Article number 2609.
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4. Lu, JJ; Lo, HJ; Lee, CH; Chen, MJ; Lin, CC; Chen, YZ; Tsai, MH; Wang, SH. [The use of maldi-tof mass spectrometry to analyze commensal oral yeasts in nursing home residents](#). *Microorganisms*. 2021 Jan 9; 9(1): Article number 142.
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Center for Neuropsychiatric Research

1. Weng, YC; Huang, YT; Chiang, IC; Tsai, PJ; Su, YW; Chou, WH. [Lipocalin-2 mediates the rejection of neural transplants](#). *The FASEB Journal*. 2021 Feb; 35(2): Article number e21317.
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Immunology Research Center

1. Weng, YC; Huang, YT; Chiang, IC; Tsai, PJ; Su, YW; Chou, WH. [Lipocalin-2 mediates the rejection of neural transplants](#). *The FASEB Journal*. 2021 Feb; 35(2): Article number e21317.
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3. Chen, C; Pan, Y; Bai, L; Chen, H; Duan, Z; Si, Q; Zhu, R; Chuang, TH; Luo, Y. [MicroRNA-3613-3p functions as a tumor suppressor and represents a novel therapeutic target in breast cancer](#). *Breast Cancer Research*. 2021 Jan 25; 23: Article number 120157.

National Mosquito-Borne Diseases Control Research Center

1. Krzywinska, E; Ferretti, L; Li, J; Li, JC; Chen, CH; Krzywinski, J. [femaleless controls sex determination and dosage compensation pathways in females of Anopheles mosquitoes](#). *Current Biology*. 2021 Jan 7; Article in Press.

Graduate Student Program

1. Hu, KF; Lin, YC; Huang, YT; Chou, YH. [A retrospective cohort study of how alveolar ridge preservation affects the need of alveolar ridge augmentation at posterior tooth implant sites](#). *Clinical Oral Investigations*. 2021 Jan 11; Article in Press.
2. Wang, SM; Lin, WC; Lin, HY; Chen, YL; Ko, CY; Wang, JM. [CCAAT/Enhancer-binding protein delta mediates glioma stem-like cell enrichment and ATP-binding cassette transporter ABCA1 activation for temozolomide resistance in glioblastoma](#). *Cell Death Discovery*. 2021 Jan 12; 7: Article number 8.
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