

NHRI Publication _February 2021

Institute of Biomedical Engineering and Nanomedicine

1. Hsieh, CC; Hsu, SC; Yao, M; Huang, DM. [Cd9 upregulation-decreased ccl21 secretion in mesenchymal stem cells reduces cancer cell migration](#). *International Journal of Molecular Sciences*. 2021 Feb 9; 22(4): Article number 1738.
2. Tan, KT; Lin, KY; Lam, CH; Lin, XH; Hsu, JI; Fan, SY; Gupta, NK; Lin, YC; Tee, BK; Li, JP; Chen, JK. [Improved stabilities of labeling probes for the selective modification of endogenous proteins in living cells and in vivo](#). *Chemistry - An Asian Journal*. 2021 Feb 25; Article in Press.
3. Yang, IH; Lin, IE; Chen, TC; Chen, ZY; Kuan, CY; Lin, JN; Chou, YC; Lin, FH. [Synthesis, characterization, and evaluation of BDDE crosslinked chitosan-TGA hydrogel encapsulated with genistein for vaginal atrophy](#). *Carbohydrate Polymers*. 2021 May 15; 260: Article number 117832.
4. Klionsky, DJ; et al. [Guidelines for the use and interpretation of assays for monitoring autophagy \(4th edition\)](#). *Autophagy*. 2021 Feb 8: 1-382.
5. Huang, SW; Sun, MT; Lee, WS; Su, YS; Lee, YT; Chiang, MH; Wang, YC; Yang, YS; Tzeng, SC; Huang, YM; Lin, FH. [Cancer as an infectious disease: A different treatment alternative using a combination of tigecycline and pyrvinium pamoate - An example of breast cancer](#). *Journal of Microbiology, Immunology, and Infection*. 2021 Jan 13; Article in Press.

Institute of Biotechnology and Pharmaceutical Research

1. Tsai, HJ; Shiah, HS; Chang, JY; Su, WC; Chiang, NJ; Chen, LT. [Phase I dose escalation study of sorafenib plus S-1 for advanced solid tumors](#). *Scientific Reports*. 2021 Mar 1; 11: Article number 4834.
2. Chen, YY; Zhang, YL; Lee, GH; Tsou, LK; Zhang, MM; Hsieh, HP; Chen, JJ; Ko, CY; Wen, ZH; Sung, PJ. [Briarenols W-Z: Chlorine-containing polyoxygenated briaranes from](#)

- [octocoral briareum stechei \(Kükenthal, 1908\)](#). *Marine Drugs*. 2021 Jan 31; 19(2): Article number 77.
3. Chen, SH; Hsiao, SY; Chang, KY; Chang, JY. [New insights into oral squamous cell carcinoma: From clinical aspects to molecular tumorigenesis](#). *International Journal of Molecular Sciences*. 2021 Feb 24; 22(5): Article number 2252.

Institute of Cellular and Systems Medicine

1. Wang, LT; Chiu, SK; Lee, W; Siu, LK; Liu, KJ; Yen, ML; Yen, BL. [Protocol for human placental mesenchymal stem cell therapy in a murine model of intra-abdominal infection of hypervirulent Klebsiella](#). *STAR Protocols*. 2021 Mar 19; 2: Article number 00337.
2. Wang, D; Rabhi, N; Yet, SF; Farmer, SR; Layne, MD. [Aortic carboxypeptidase-like protein regulates vascular adventitial progenitor and fibroblast differentiation through myocardin related transcription factor A](#). *Scientific Reports*. 2021 Feb 17; 11: Abstract number 3948.
3. Wang, LT; Lee, YW; Bai, CH; Chiang, HC; Wang, HH; Yen, BL; Yen, ML. [A rapid and highly predictive in vitro screening platform for osteogenic natural compounds using human runx2 transcriptional activity in mesenchymal stem cells](#). *Frontiers in Cell and Developmental Biology*. 2021 Jan; Article in Press.
4. Klionsky, DJ; et al. [Guidelines for the use and interpretation of assays for monitoring autophagy \(4th edition\)](#). *Autophagy*. 2021 Feb 8: 1-382.

Institute of Molecular and Genomic Medicine

1. Heng, E; Tan, LL; Zhang, MM; Wong, FT. [CRISPR-Cas strategies for natural product discovery and engineering in actinomycetes](#). *Process Biochemistry*. 2021 Mar; 102: 261-268.
2. He, Y; Pasupala, N; Zhi, H; Dorjbal, B; Hussain, I; Shih, HM; Bhattacharyya, S; Biswas, R; Miljkovic, M; Semmes, OJ; Waldmann, TA; Snow, AL; Giam, CZ. [NF-kappaB-induced R-loop accumulation and DNA damage select for nucleotide excision repair deficiencies in adult T cell leukemia](#). *Proceedings of the National Academy of Sciences of the United States of America*. 2021 Feb 2; 118(2): 1-10.

States of America. 2021 Mar 9; 118(10): Article number e2005568118.

3. Chen, YY; Zhang, YL; Lee, GH; Tsou, LK; Zhang, MM; Hsieh, HP; Chen, JJ; Ko, CY; Wen, ZH; Sung, PJ. [Briarenols W-Z: Chlorine-containing polyoxygenated briaranes from octocoral *briareum stechei* \(Kükenthal, 1908\).](#) *Marine Drugs. 2021 Jan 31; 19(2): Article number 77.*

Institute of Population Health Sciences

1. Chilinda, ZB; Wahlqvist, ML; Lee, MS; Huang, YC. [Higher maternal autonomy is associated with reduced child stunting in Malawi.](#) *Scientific Reports. 2021 Feb 16; 11: Article number 3882.*
2. Huang, FY; Ho, CH; Liao, JY; Hsiung, CA; Yu, SJ; Zhang, KP; Chen, PJ. [Medical care needs for patients receiving home healthcare in Taiwan: Do gender and income matter?](#) *PLoS ONE. 2021 Feb 25; 16(2): Article number e0247622.*
3. Chiang, C; Hsiao, CF. [Tolerance interval testing for assessing accuracy and precision simultaneously.](#) *PLoS ONE. 2021 Feb 5; 16: Article number e0246642.*
4. Wei, CF; Lin, CC; Tsai, MS; Guo, YL; Lin, SJ; Liao, HF; Hsieh, WS; Chen, MH; Chen, PC. [Associations between infant developmental delays and secondhand smoke exposure modified by maternal pre-pregnancy overweight and obesity status.](#) *Nicotine and Tobacco Research. 2021 Feb 8; Article in Press.*
5. Yen, FS; Hsu, CC; Su, YC; Wei, JC; Hwu, CM. [Impacts of early insulin treatment vs glimepiride in diabetic patients with background metformin therapy: A nationwide retrospective cohort study.](#) *Medicine. 2021 Mar 5; 100(9): Article number e25085.*
6. Lin, MH; Chiu, SY; Ho, WC; Chi, KH; Liu, TY; Wang, IJ. [Effect of triclosan on the pathogenesis of allergic diseases among children.](#) *Journal of Exposure Science and Environmental Epidemiology. 2021 Mar 2; Article in Press.*
7. Chang, LY; Wang, CC; Weng, WC; Chiu, SN; Chang, HY. [Age differences in the mediating effects of parenting stress on the relationship between cyanotic congenital heart disease and externalizing problems in children and adolescents.](#) *Journal of Cardiovascular Nursing. 2021 Feb 2; Article in Press.*

8. Huang, SH; Huang, WC; Lin, SW; Chuang, YC; Sun, HY; Chang, SY; Kuo, PH; Wu, PY; Liu, WC; Chiang, C; Hung, CC; Chang, SC. [Impact of efavirenz mid-dose plasma concentration on long-term weight change among virologically suppressed people living with HIV](#). *Journal of Acquired Immune Deficiency Syndromes*. 2021 Feb 11; Article in Press.
9. Pan, KL; Wu, YL; Lee, M; Ovbiagele, B. [Catheter ablation compared with medical therapy for atrial fibrillation with heart failure: A systematic review and meta-analysis of randomized controlled trials](#). *International Journal of Medical Sciences*. 2021 Jan 21; 18(6): 1325-1331.
10. Lin, MH; Chiu, SY; Ho, WC; Huang, HY. [Application of the ottawa charter five priority areas of action for public health to an institution-wide diabetes care promotion](#). *International Journal of Environmental Research and Public Health*. 2021 Feb 5; 18(4): Article number 1543.
11. Chang, CH; Kuo, CP; Huang, CN; Hwang, SL; Liao, WC; Lee, MC. [Habitual physical activity and diabetes control in young and older adults with type II diabetes: A longitudinal correlational study](#). *International Journal of Environmental Research and Public Health*. 2021 Feb 2; 18(3): Article number 1330.
12. Chu, WM; Ho, HE; Yeh, CJ; Tsan, YT; Lee, SH; Lee, MC. [Late-career unemployment and risk of frailty among older adults in Taiwan: An 8-year population-based cohort study](#). *Geriatrics and Gerontology International*. 2021 Feb 15; Article in Press.
13. Wen, CJ; Chang, CH; Chen, CY; Peng, JK; Huang, HL; Chuang, PN; Chen, CY; Tsai, JS. [Age-dependent messenger-RNA expression of toll-like receptor 4 and intercellular adhesion molecule-1 in peripheral blood mononuclear cells](#). *European Journal of Clinical Investigation*. 2021 Feb 16; Article in Press.
14. Li, YL; Chuang, TW; Chang, PY; Lin, LY; Su, CT; Chien, LN; Chiou, HY. [Long-term exposure to ozone and sulfur dioxide increases the incidence of type 2 diabetes mellitus among aged 30 to 50 adult population](#). *Environmental Research*. 2021 Mar; 194: Article number 110624.
15. Yen, FS; Wei, JC; Lin, MC; Hsu, CC; Hwu, CM. [Long-term outcomes of adding alpha-](#)

[glucosidase inhibitors in insulin-treated patients with type 2 diabetes](#). *BMC Endocrine Disorders*. 2021 Feb 18; 21: Article number 25.

National Institute of Cancer Research

1. Wang, LT; Chiu, SK; Lee, W; Siu, LK; Liu, KJ; Yen, ML; Yen, BL. [Protocol for human placental mesenchymal stem cell therapy in a murine model of intra-abdominal infection of hypervirulent *Klebsiella*](#). *STAR Protocols*. 2021 Mar 19; 2: Article number 00337.
2. Tsai, HJ; Shiah, HS; Chang, JY; Su, WC; Chiang, NJ; Chen, LT. [Phase I dose escalation study of sorafenib plus S-1 for advanced solid tumors](#). *Scientific Reports*. 2021 Mar 1; 11: Article number 4834.
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7. Chen, SH; Hsiao, SY; Chang, KY; Chang, JY. [New insights into oral squamous cell](#)

- [carcinoma: From clinical aspects to molecular tumorigenesis](#). *International Journal of Molecular Sciences*. 2021 Feb 24; 22(5): Article number 2252.
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National Institute of Environmental Health Sciences

1. Asri, AK; Pan, WC; Lee, HY; Su, HJ; Wu, CD; Spengler, JD. [Spatial patterns of lower respiratory tract infections and their association with fine particulate matter](#). *Scientific Reports*. 2021 Mar 1; 11: Article number 4866.
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4. Wei, CF; Lin, CC; Tsai, MS; Guo, YL; Lin, SJ; Liao, HF; Hsieh, WS; Chen, MH; Chen, PC. [Associations between infant developmental delays and secondhand smoke exposure modified by maternal pre-pregnancy overweight and obesity status](#). *Nicotine and Tobacco Research*. 2021 Feb 8; Article in Press.
5. Wu, WT; Jung, WT; Lee, HL. [Lipid peroxidation metabolites associated with biomarkers of inflammation and oxidation stress in workers handling carbon nanotubes and metal](#)

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 11. Wong, PY; Hsu, CY; Wu, JY; Teo, TA; Huang, JW; Guo, HR; Su, HJ; Wu, CD; Spengler, JD. [Incorporating land-use regression into machine learning algorithms in estimating the spatial-temporal variation of carbon monoxide in Taiwan](#). *Environmental Modelling and Software*. 2021 May; 139: Article number 104996.
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National Institute of Infectious Diseases and Vaccinology

1. Wang, LT; Chiu, SK; Lee, W; Siu, LK; Liu, KJ; Yen, ML; Yen, BL. [Protocol for human placental mesenchymal stem cell therapy in a murine model of intra-abdominal infection of hypervirulent *Klebsiella*](#). *STAR Protocols*. 2021 Mar 19; 2: Article number 00337.
2. Li, MC; Tang, HJ; Wu, CJ; Wang, SW; Su, SL; Liu, WL; Ko, WC; Chen, YC. [Species identification and antifungal susceptibility of uncommon blood yeast isolates](#). *Journal of Microbiology, Immunology, and Infection = Wei Mian Yu Gan Ran Za Zhi*. 2021 Feb 10; Article in Press.

Center for Neuropsychiatric Research

1. Hu, PJ; Chen, CH; Wong, CS; Chen, TT; Wu, MY; Sung, LC. [Influenza vaccination reduces incidence of peripheral arterial occlusive disease in elderly patients with chronic kidney disease](#). *Scientific Reports*. 2021 Mar 1; 11: Article number 4847.
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Graduate Student Program

1. Tsai, CY; Su, YF; Kuo, KL; Ko, HJ; Su, HY; Wu, CH; Chou, YL; Lin, CL; Tsai, TH. [Minimally invasive transforaminal lumbar interbody fusion for 2-level degenerative lumbar disease in patients with osteoporosis: Long-term clinical and radiographic](#)

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2. Cheng, LC; Kao, TJ; Phan, NN; Chiao, CC; Yen, MC; Chen, CF; Hung, JH; Jiang, JZ; Sun, Z; Wang, CY; Hsu, HP. [Novel signaling pathways regulate SARS-CoV and SARS-CoV-2 infectious disease](#). *Medicine*. 2021 Feb 19; 100(7): Article number e24321.
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