

## NHRI Publication \_MAY 2020

### Institute of Biomedical Engineering and Nanomedicine

1. Huang, GC; Su, CP; Chang, YC; Chen, YJ; Fang, HW. [Establishment of surface marker expression profiles for colorectal cancer stem cells under different conditions.](#) *Translational Cancer Research.* 2020 Apr; 9(4): 2503-2510.
2. Huang, YM; Huang, CC; Tsai, PI; Yang, KY; Huang, SI; Shen, HH; Lai, HJ; Huang, SW; Chen, SY; Lin, FH; Chen, CY. [Three-dimensional printed porous titanium screw with bioactive surface modification for bone-tendon healing: A rabbit animal model.](#) *International Journal of Molecular Sciences.* 2020 May 21; 21(10): Article number 3628.
3. Wong, CC; Huang, YM; Chen, CH; Lin, FH; Yeh, YY; Bai, MY. [Cytokine and growth factor delivery from implanted platelet-rich fibrin enhances rabbit achilles tendon healing.](#) *International Journal of Molecular Sciences.* 2020 May 2; 21(9): Article number 3221.
4. Degli Esposti, L; Adamiano, A; Tampieri, A; Ramirez-Rodriguez, GB; Siliqi, D; Giannini, C; Ivanchenko, P; Martra, G; Lin, FH; Delgado-Lo'pez, JM; Iafisco, M. [Combined effect of citrate and fluoride ions on hydroxyapatite nanoparticles.](#) *Crystal Growth and Design.* 2020 Mar 17; 20(5): 3163-3172.
5. Romashchenko, AV; Petrovski, DV; Trotsky, SY; Morozova, KN; Illarionova, NB; Zhukova, MV; Kiseleva, EV; Sharapova, MB; Sherbakov, IS; Rakshun, YV; Kuper, KE; Gerlinskaya, LA; Lin, FH; Moshkin, YM; Moshkin, MP. [High resolution quantitative tracing and modulation of nanoparticles' nose-to-brain transmission.](#) *4th International Conference on Metamaterials and Nanophotonics, METANANO 2019.* 2020 Mar 1; 1461: 012141.

### Institute of Biotechnology and Pharmaceutical Research

1. Hsieh, CF; Jheng, JR; Lin, GH; Chen, YL; Ho, JY; Liu, CJ; Hsu, KY; Chen, YS; Chan, YF; Yu, HM; Hsieh, PW; Chern, JH; Horng, JT. [Rosmarinic acid exhibits broad anti-](#)

- [enterovirus A71 activity by inhibiting the interaction between the five-fold axis of capsid VP1 and cognate sulfated receptors](#). *Emerging Microbes and Infections*. 2020 May 13; Article in Press.
2. Ke, YY; Peng, TT; Yeh, TK; Huang, WZ; Chang, SE; Wu, SH; Hung, HC; Hsu, TA; Lee, SJ; Song, JS; Lin, WH; Chiang, TJ; Lin, JH; Sytwu, HK; Chen, CT. [Artificial intelligence approach fighting COVID-19 with repurposing drugs](#). *Biomedical Journal*. 2020 May 15; Article in Press.

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

1. Wang, CY; Lin, TA; Ho, MY; Yeh, JK; Tsai, ML; Hung, KC; Hsieh, IC; Wen, MS. [Regulation of autophagy in leukocytes through RNA N6-adenosine methylation in chronic kidney disease patients](#). *Biochemical and Biophysical Research Communications*. 2020 May 18; Article in Press.
2. Lin, CY; Chuu, CP. [New classification may assist the development of targeted therapies for treatment-refractory castration-resistant prostate cancer](#). *Translational Andrology and Urology*. 2020 Apr; 9(2): 837-839.
3. Tseng, JC; Huang, SH; Lin, CY; Wang, BJ; Huang, SF; Shen, YY; Chuu, CP. [ROR2 suppresses metastasis of prostate cancer via regulation of miR-199a-5p-PIAS3-AKT2 signaling axis](#). *Cell Death and Disease*. 2020 May 15; 11(5): Article number 376.
4. Chen, CM; Wu, ML; Ho, YC; Gung, PY; Tsai, MH; Orekhov, AN; Sobenin, IA; Lin, P; Yet, SF. [Exposure to zinc oxide nanoparticles disrupts endothelial tight and adherens junctions and induces pulmonary inflammatory cell infiltration](#). *International Journal of Molecular Sciences*. 2020 May 13; 21(10): Article number 3437.

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

1. Kuo, TC; Kung, HJ; Shih, JW. Signaling in and out: [Long-noncoding RNAs in tumor hypoxia](#). *Journal of Biomedical Science*. 2020 May; 27: Article number 59.
2. Tseng, JC; Huang, SH; Lin, CY; Wang, BJ; Huang, SF; Shen, YY; Chuu, CP. [ROR2 suppresses metastasis of prostate cancer via regulation of miR-199a-5p-PIAS3-AKT2](#)

- [signaling axis](#). *Cell Death and Disease*. 2020 May 15; 11(5): Article number 376.
3. Chen, PL; Huang, KT; Cheng, CY; Li, JC; Chan, HY; Lin, TY; Su, MP; Yang, WY; Chang, HC; Wang, HD; Chen, CH. [Vesicular transport mediates the uptake of cytoplasmic proteins into mitochondria in \*Drosophila melanogaster\*](#). *Nature Communications*. 2020 May 22; 11: Article number 2592.

### Institute of Population Health Sciences

1. Wang, CC; Weng, WC; Chang, LY; Chang, HY; Wu, MH; Wang, JK; Lu, CW; Lin, MT; Chen, CA; Chiu, SN. [Increased prevalence of inattention-related symptoms in a large cohort of patients with congenital heart disease](#). *European Child and Adolescent Psychiatry*. 2020 May 11; Article in Press.
2. Chen, Y; Liang, KY; Tong, P; Beaty, TH; Barnes, KC; Linda Kao, WH. [A pseudolikelihood approach for assessing genetic association in case-control studies with unmeasured population structure](#). *Statistical Methods in Medical Research*. 2020 May 12; Article in Press.
3. Lin, KH; Yen, FS; Li, HL; Wei, JCC; Hsu, CC; Yang, CC; Hwu, CM. [Urate-lowering therapy exerts protective effects against hypertension development in patients with gout](#). *Journal of Human Hypertension*. 2020 May 4; Article in Press.
4. Chen, CC; Lee, CP; Yan, YH; Cheng, TJ; Sen, PK. [A partial likelihood-based two-dimensional multistate markov model with application to myocardial infarction and stroke recurrence](#). *Sankhya B*. 2020 May 2; Article in Press.
5. Gao, W; Sanna, M; Tsai, MK; Wen, CP. [Geo-temporal distribution of 1,688 Chinese healthcare workers infected with COVID-19 in severe conditions-A secondary data analysis](#). *PLoS ONE*. 2020 May 14; 15(5): Article number e0233255.
6. Lu, MR; Lai, CK; Liao, BY; Tsai, IJ. [Comparative transcriptomics across nematode life cycles reveal gene expression conservation and correlated evolution in adjacent developmental stages](#). *Genome Biology and Evolution*. 2020 May 28; Article in Press.
7. Fan, YP; Wu, CT; Lin, JL; Hsiung, CA; Liu, HY; Lai, JN; Yang, CC. [Metformin treatment is associated with a decreased risk of nonproliferative diabetic retinopathy in](#)

- [patients with type 2 diabetes mellitus: A population-based cohort study](#). *Journal of Diabetes Research*. 2020 Apr; 2020: Article number 9161039.
8. Chiang, C; Lai, YH; Huang, BH; Guo, WJ; Wu, YJ; Chang, LC; Hsiao, CF. [Use of a tolerance interval approach as a statistical quality control tool for traditional Chinese medicine](#). *Journal of Biopharmaceutical Statistics*. 2020 May 12; Article in Press.
9. Chiang, NJ; Chen, MH; Yang, SH; Hsu, C; Yen, CJ; Tsou, HH; Su, YY; Chen, JS; Shan, YS; Chen, LT. [Multicentre, phase II study of gemcitabine and S-1 in patients with advanced biliary tract cancer: TG1308 study](#). *Liver International*. 2020 May 28; Article in Press.

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

1. Chen, YJ; Lee, WH; Ho, HJ; Tseng, CH; Wu, CY. [An altered fecal microbial profiling in rosacea patients compared to matched controls](#). *Journal of the Formosan Medical Association*. 2020 May 20; Article in Press.
2. Dai, HJ; Wang, FD; Chen, CW; Su, CH; Wu, CS; Jonnagaddala, J. [Cohort selection for clinical trials using multiple instance learning](#). *Journal of Biomedical Informatics*. 2020 May 1; 107: Article number 103438.
3. Fang, WY; Kuo, YZ; Chang, JY; Hsiao, JR; Kao, HY; Tsai, ST; Wu, LW. [The tumor suppressor TGFBR3 blocks lymph node metastasis in head and neck cancer](#). *Cancers*. 2020 May 27; 12(6): Article number 1375.
4. Shan, YS; Chen, LT; Wu, JS; Chang, YF; Lee, CT; Wu, CH; Chiang, NJ; Huang, HE; Yen, CJ; Chao, YJ; Tsai, HJ; Chen, CY; Kang, JW; Kuo, CF; Tsai, CR; Weng, YL; Yang, HC; Liu, HC; Chang, JS. [Validation of genome-wide association study-identified single nucleotide polymorphisms in a case-control study of pancreatic cancer from Taiwan](#). *Journal of Biomedical Science*. 2020 May 26; 27: Article number 69.
5. Su, YY; Chiang, NJ; Tsai, HJ; Yen, CJ; Shan, YS; Chen, LT. [The impact of liposomal irinotecan on the treatment of advanced pancreatic adenocarcinoma: Real-world experience in a Taiwanese cohort](#). *Scientific Reports*. 2020 May 4; 10: Article number 7420.

6. Lin, CY; Chang, JS; Huang, SM; Hung, CJ; Hung, CL; Chang, CT; Yang, HR; Hsieh, TC; Huang, YH; Tsai, HJ. [Experience of sorafenib treatment in differentiated thyroid cancer from Taiwan](#). *Journal of the Formosan Medical Association*. 2020 May 8; Article in Press.
7. Chiang, NJ; Chen, MH; Yang, SH; Hsu, C; Yen, CJ; Tsou, HH; Su, YY; Chen, JS; Shan, YS; Chen, LT. [Multicentre, phase II study of gemcitabine and S-1 in patients with advanced biliary tract cancer: TG1308 study](#). *Liver International*. 2020 May 28; Article in Press.
8. Yoo, C; Oh, DY; Choi, HJ; Kudo, M; Ueno, M; Kondo, S; Chen, LT; Osada, M; Helwig, C; Dussault, I; Ikeda, M. [Phase I study of bintrafusp alfa, a bifunctional fusion protein targeting TGF-beta and PD-L1, in patients with pretreated biliary tract cancer](#). *Journal for ImmunoTherapy of Cancer*. 2020 May; 8: Article number e00056.

#### **National Institute of Environmental Health Sciences**

1. Chen, CM; Wu, ML; Ho, YC; Gung, PY; Tsai, MH; Orekhov, AN; Sobenin, IA; Lin, P; Yet, SF. [Exposure to zinc oxide nanoparticles disrupts endothelial tight and adherens junctions and induces pulmonary inflammatory cell infiltration](#). *International Journal of Molecular Sciences*. 2020 May 13; 21(10): Article number 3437.
2. Weng, JC; Hong, CI; Tasi, JD; Shen, CY; Su, PH; Wang, SL. [The association between prenatal endocrine-disrupting chemical exposure and altered resting-state brain fMRI in teenagers](#). *Brain Structure and Function*. 2020 May 25; Article in Press.
3. Kuan, CH; Yang, HW; Huang, HF; Jyuhn-Hsiarn Lee, L; Tseng, TY; Hsieh, JH; Cheng, NC; Tai, HC; Lai, HS. [Prognostic significance of positive surgical margins for scalp angiosarcoma](#). *Journal of the Formosan Medical Association*. 2020 May 20; Article in Press.
4. [Tseng, CH. Dementia risk in type 2 diabetes patients: Acarbose use and its joint effects with metformin and pioglitazone](#). *Aging and Disease*. 2020 Jun; 11(3): 658-667.
5. Ngo, TH; Yang, YH; Chen, YC; Pan, WC; Chi, KH. [Continuous nationwide atmospheric PCDD/F monitoring network in Taiwan \(2006-2016\): Variation in concentrations and](#)

[apportionment of emission sources](#). *Chemosphere*. 2020 Sep; 255: Article number 126979.

### National Institute of Infectious Diseases and Vaccinology

1. Ke, YY; Peng, TT; Yeh, TK; Huang, WZ; Chang, SE; Wu, SH; Hung, HC; Hsu, TA; Lee, SJ; Song, JS; Lin, WH; Chiang, TJ; Lin, JH; Sytwu, HK; Chen, CT. [Artificial intelligence approach fighting COVID-19 with repurposing drugs](#). *Biomedical Journal*. 2020 May 15; Article in Press.
2. Fu, SH; Chien, MW; Hsu, CY; Liu, YW; Sytwu, HK. [Interplay between cytokine circuitry and transcriptional regulation shaping helper T cell pathogenicity and plasticity in inflammatory bowel disease](#). *International Journal of Molecular Sciences*. 2020 May 11; 21(9): Article number 3379.
3. Hsu, CY; Fu, SH; Chien, MW; Liu, YW; Chen, SJ; Sytwu, HK. [Post-translational modifications of transcription factors harnessing the etiology and pathophysiology in colonic diseases](#). *International Journal of Molecular Sciences*. 2020 May 1; 21(9): Article number 3207.
4. Simanjuntak, Y; Ko, HY; Lee, YL; Yu, GY; Lin, YL. [Preventive effects of folic acid on Zika virus-associated poor pregnancy outcomes in immunocompromised mice](#). *PLoS Pathogens*. 2020 May; 16(5): Article number e1008521.
5. Weng, TY; Yen, H; Mahmood, K; Martin, J; Lee, MS. [Workshop report on global harmonization of enterovirus vaccines](#). *Emerging Infectious Diseases*. 2020 Apr; 26(4): Meeting Abstract 191273.
6. Yu, WL; Lee, NY; Wang, JT; Ko, WC; Ho, CH; Chuang, YC. [Tigecycline therapy for infections caused by Extended-Spectrum  \$\beta\$ -Lactamase-Producing enterobacteriaceae in critically ill patients](#). *Antibiotics*. 2020 May 5; 9(5): Article number 231.
7. Chen, TH; Chen, CC; Huang, MH; Huang, CH; Jan, JT; Wu, SC. [Use of PELC/CpG adjuvant for intranasal immunization with recombinant hemagglutinin to develop H7N9 mucosal vaccine](#). *Vaccines*. 2020 May 21; 8(2): Article number 240.
8. Chang, SF; Chen, CN; Lin, JC; Wang, HE; Mori, S; Li, JJ; Yen, CK; Hsu, CY; Fung, CP;

- Chong, PCS; Leng, CH; Ding, YJ; Chang, FY; Siu, LK. [Truncated pneumolysin from streptococcus pneumoniae as a TLR4-Antagonizing new drug for chronic inflammatory conditions](#). *Cells*. 2020 May 9; 9(5): Article number 1183.
9. Pan, CY; Liu, WL; Su, MP; Chang, TP; Ho, HP; Shu, PY; Huang, JJ; Lin, LJ; Chen, CH. [Epidemiological analysis of the Kaohsiung city strategy for dengue fever quarantine and epidemic prevention](#). *BMC Infectious Diseases*. 2020 May 15; 20: Article number 347.
10. Chen, PL; Huang, KT; Cheng, CY; Li, JC; Chan, HY; Lin, TY; Su, MP; Yang, WY; Chang, HC; Wang, HD; Chen, CH. [Vesicular transport mediates the uptake of cytoplasmic proteins into mitochondria in Drosophila melanogaster](#). *Nature Communications*. 2020 May 22; 11: Article number 2592.

#### **National Mosquito-Borne Diseases Control Research Center**

1. Pan, CY; Liu, WL; Su, MP; Chang, TP; Ho, HP; Shu, PY; Huang, JJ; Lin, LJ; Chen, CH. [Epidemiological analysis of the Kaohsiung city strategy for dengue fever quarantine and epidemic prevention](#). *BMC Infectious Diseases*. 2020 May 15; 20: Article number 347.
2. Chen, PL; Huang, KT; Cheng, CY; Li, JC; Chan, HY; Lin, TY; Su, MP; Yang, WY; Chang, HC; Wang, HD; Chen, CH. [Vesicular transport mediates the uptake of cytoplasmic proteins into mitochondria in Drosophila melanogaster](#). *Nature Communications*. 2020 May 22; 11: Article number 2592.

#### **Center for Neuropsychiatric Research**

1. Lin, WY; Lin, YS; Chan, CC; Liu, YL; Tsai, SJ; Kuo, PH. [Using genetic risk score approaches to infer whether an environmental factor attenuates or exacerbates the adverse influence of a candidate gene](#). *Frontiers in Genetics*. 2020 May; 11: Article number 331.

#### **Immunology Research Center**

1. Traisaeng, S; Batsukh, A; Chuang, TH; Herr, DR; Huang, YF; Chimeddorj, B; Huang, CM. [Leuconostoc mesenteroides fermentation produces butyric acid and mediates Ffar2 to regulate blood glucose and insulin in type 1 diabetic mice](#). *Scientific Reports*. 2020

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### **Pathology Core Laboratory**

1. Tseng, JC; Huang, SH; Lin, CY; Wang, BJ; Huang, SF; Shen, YY; Chuu, CP. [ROR2 suppresses metastasis of prostate cancer via regulation of miR-199a-5p-PIAS3-AKT2 signaling axis](#). *Cell Death and Disease*. 2020 May 15; 11(5): Article number 376.

### **Graduate Student Program**

1. Tani, J; Liao, HT; Hsu, HC; Chen, LF; Shin-Yi Lin, C; Sung, JY. [Immune-mediated axonal dysfunction in seropositive and seronegative primary Sjögren's syndrome](#). *Annals of Clinical and Translational Neurology*. 2020 May 15; Article in Press.

### **Office of Environment, Safety, and Health**

1. Ke, YY; Peng, TT; Yeh, TK; Huang, WZ; Chang, SE; Wu, SH; Hung, HC; Hsu, TA; Lee, SJ; Song, JS; Lin, WH; Chiang, TJ; Lin, JH; Sytwu, HK; Chen, CT. [Artificial intelligence approach fighting COVID-19 with repurposing drugs](#). *Biomedical Journal*. 2020 May 15; Article in Press.