

NHRI Publication _ MAR 2020

Institute of Biomedical Engineering and Nanomedicine

1. Solovchuk, M; Deng, HA; Sheu, TWH. [Experimental and numerical study on the temperature elevation in tissue during moxibustion therapy](#). *Evidence-Based Complementary and Alternative Medicine: eCAM*. 2020 Mar 2; 2020: Article number 7514302.
2. Yeh, LC; Chen, SP; Liao, FH; Wu, TH; Huang, YT; Lin, SY. [The bioactive core and corona synergism of quantized gold enables slowed inflammation and increased tissue regeneration in wound hypoxia](#). *International Journal of Molecular Sciences*. 2020 Mar 2; 21(5): Article number 1699.
3. Chiu, KY; Chen, KK; Wang, YH; Lin, FH; Huang, JY. [Formability of Fe-doped bioglass scaffold via selective laser sintering](#). *Ceramics International*. 2020 Mar 25; Article in Press.
4. Huang, HJ; Chiang, YC; Hsu, CH; Chen, JJ; Shiao, MH; Yeh, CC; Huang, SL; Lin, YS. [Light energy conversion surface with gold dendritic nanoforests/Si chip for plasmonic polymerase chain reaction](#). *Sensors*. 2020 Feb 27; 20(5): Article number 1293.
5. Tan, JS; Lin, CC; Cheng, JS; Chen, GS. [High-intensity focused ultrasound ablation combined with electrical passive exercise for fast removal of body fat](#). *Plastic and Reconstructive Surgery*. 2020 Mar 16; Article in Press.
6. Tan, JS; Lin, CC; Chen, GS. [Vasomodulation of peripheral blood flow by focused ultrasound potentiates improvement of diabetic neuropathy](#). *BMJ Open Diabetes Research and Care*. 2020 Mar; 8: Article number e001004.
7. Chen, JC; Su, CM; Chen, GS; Lai, CC; Chen, CY; Lin, KM; Lin, FH; Dong, GC. [Enhancement of neurite outgrowth by warming biomaterial ultrasound treatment](#). *International Journal of Molecular Sciences*. 2020 Mar 23; 21(6): Article number 2236.

Institute of Biotechnology and Pharmaceutical Research

1. Huang, PN; Wang, HC; Hung, HC; Tseng, SN; Chang, TY; Chou, MY; Chen, YJ; Wang,

- YM; Shih, SR; Hsu, JT. [Antiviral activity of llama-inspired single domain antibody against Enterovirus A71](#). *Antimicrobial Agents and Chemotherapy*. 2020 Mar 9; Article in Press.
2. Lin, SY; Chang, CF; Coumar, MS; Chen, PY; Kuo, FM; Chen, CH; Li, MC; Lin, WH; Kuo, PC; Wang, SY; Li, AS; Lin, CY; Yang, CM; Yeh, TK; Song, JS; Hsu, JTA; Hsieh, HP. Drug-like property optimization: [Discovery of orally bioavailable quinazoline-based multi-targeted kinase inhibitors](#). *Bioorganic Chemistry*. 2020 May; 98: Article number 103689.
3. Shiah, SG; Hsiao, JR; Chang, HJ; Hsu, YM; Wu, GH; Peng, HY; Chou, ST; Kuo, CC; Chang, JY. [MiR-30a and miR-379 modulate retinoic acid pathway by targeting DNA methyltransferase 3B in oral cancer](#). *Journal of Biomedical Science*. 2020 Apr 2; 27: Article number 46.

Institute of Cellular and Systems Medicine

1. Huang, SH; Kao, YH; Muller, CJF; Joubert, E; Chuu, CPD. [Aspalathin-rich green Aspalathus linearis extract suppresses migration and invasion of human castration-resistant prostate cancer cells via inhibition of YAP signaling](#). *Phytomedicine*. 2020 Mar 18; 69: Article number 153210.
2. Hung, YW; Wang, Y; Lee, SL. [DPP-4 inhibitor reduces striatal microglial deramification after sensorimotor cortex injury induced by external force impact](#). *FASEB Journal*. 2020 Apr 4; Article in Press.
3. Ho, CC; Chen, YC; Yet, SF; Weng, CY; Tsai, HT; Hsu, JF; Lin, P. [Identification of ambient fine particulate matter components related to vascular dysfunction by analyzing spatiotemporal variations](#). *Science of the Total Environment*. 2020 Jun 1; 719: Article number 137243.

Institute of Molecular and Genomic Medicine

1. Goh, F; Zhang, MM; Lim, TR; Low, KN; Nge, CE; Heng, E; Yeo, WL; Sirota, FL; Crasta, S; Tan, Z; Ng, V; Leong, CY; Zhang, H; Lezhava, A; Chen, SL; Hoon, SS; Eisenhaber, F; Eisenhaber, B; Kanagasundaram, Y; Wong, FT; Ng, SB. [Identification and engineering of](#)

- [32 membered antifungal macrolactone notonesomycins](#). *Microbial Cell Factories*. 2020 Mar 19; 19: Article number 71.
2. Sie, ZL; Li, RY; Sampurna, BP; Hsu, PJ; Liu, SC; Wang, HD; Huang, CL; Yuh, CH. [WNK1 kinase stimulates angiogenesis to promote tumor growth and metastasis](#). *Cancers*. 2020 Mar 2; 12(3): Article number 575.
3. Yang, CP; Yang, WS; Wong, YH; Wang, KH; Teng, YC; Chang, MH; Liao, KH; Nian, FS; Chao, CC; Tsai, JW; Hwang, WL; Lin, MW; Tzeng, TY; Wang, PN; Campbell, M; Chen, LK; Tsai, TF; Chang, PC; Kung, HJ. [Muscle atrophy-related myotube-derived exosomal microRNA in neuronal dysfunction: Targeting both coding and long noncoding RNAs](#). *Aging Cell*. 2020 Mar 31; Article in Press.

Institute of Population Health Sciences

1. Zheng, JS; Wahlqvist, ML. [Regulobiosis: A regulatory and food system-sensitive role for fungal symbionts in human evolution and ecobiology](#). *Asia Pacific Journal of Clinical Nutrition*. 2020 Mar; 29(1): 9-15.
2. Woo, J; Ong, S; Chan, R; Li, L; Sun, J; Chan, YM; Wee, SL; Thu, NN; Thang, P; Setiati, S; Huang, YC; Wahlqvist, ML; de Groot, LC. [Nutrition, sarcopenia and frailty: An Asian perspective](#). *Translational Medicine of Aging*. 2019 Nov 8; 3: 125-131.
3. Chiang, TW; Chen, SY; Pan, YC; Lin, YH. [Automatic work-hours recorder for medical staff \(staff hours\): Mobile app development](#). *JMIR Mhealth Uhealth*. 2020 Feb; 8(2): Article number e16063.
4. Shih, YH; Chang, HY; Wu, HC; Stanaway, FF; Pan, WH. [High sugar-sweetened beverage intake frequency is associated with smoking, irregular meal intake and higher serum uric acid in Taiwanese adolescents](#). *Journal of Nutritional Science*. 2020 Feb 10; 9: Article number e7.
5. Yen, FS; Hsu, CC; Li, HL; Wei, JC; Hwu, CM. [Urate-lowering therapy may prevent the development of coronary artery disease in patients with gout](#). *Frontiers in Medicine*. 2020 Feb 27; 7: Article number 63.
6. Wang, HK; Huang, CY; Sun, YT; Li, JY; Chen, CH; Sun, Y; Liu, CH; Lin, CH; Chang,

- WL; Lee, JT; Sung, SF; Yeh, PY; Lai, TC; Tsai, IJ; Lin, MC; Lin, CL; Wen, CP; Hsu, CY; Taiwan Stroke Registry Investigators. [Taiwan Stroke Registry. Smoking paradox in stroke survivors? Uncovering the truth by interpreting 2 sets of data.](#) *Stroke*. 2020 Apr; 51(4): 1248-1256.
7. Gao, W; Sanna, M; Chuluunbaatar, E; Tsai, MK; Levy, DT; Wen, CP. [Are e-cigarettes reviving the popularity of conventional smoking among Taiwanese male adolescents? A time-trend population-based analysis for 2004-2017.](#) *Tobacco Control*. 2020 Mar 31: Article in Press.
 8. Tseng, HY; Lockenhoff, C; Lee, CY; Yu, SH; Wu, IC; Chang, HY; Chiu, YF; Hsiung, CA. [The paradox of aging and health-related quality of life in Asian Chinese: Results from the Healthy Aging Longitudinal Study in Taiwan.](#) *BMC Geriatrics*. 2020 Mar 5; 20: Article number 91.
 9. Chen, MP; Lord, AYZ; Cheng, YY; Tai, KC; Pan, WH. [Collective reflection strategy for moderating conformity tendency and promoting reflective judgment performance.](#) *Journal of Computer Assisted Learning*. 2020 Feb 26; Article in Press.
 10. Kao, HF; Wang, YC; Tseng, HY; Wu, LSH; Tsai, HJ; Hsieh, MH; Chen, PC; Kuo, WS; Liu, LF; Liu, ZG; Wang, JY. [Goat milk consumption enhances innate and adaptive immunities and alleviates allergen-induced airway inflammation in offspring mice.](#) *Frontiers in Immunology*. 2020 Feb; 11: Article number 184.
 11. Yuan, HY; Liang, J; Lin, PS; Sucipto, K; Tsegaye, MM; Wen, TH; Pfeiffer, S; Pfeiffer, D. [The effects of seasonal climate variability on dengue annual incidence in Hong Kong: A modelling study.](#) *Scientific Reports*. 2020 Mar 9; 10: Article number 4297.
 12. Tai, CJ; Chen, JH; Tseng, TG; Lin, YT; Hsiao, YH; Lee, MC; Yang, YH. [Prediction of frailty and dementia using oral health impact profile from a population-based survey.](#) *International Journal of Environmental Research and Public Health*. 2020 Mar 18; 17(6): Article number 1997.
 13. Su, SY; Lu, IH; Cheng, WC; Chung, WC; Chen, PY; Ho, JM; Chen, SH; Lin, CY. [EpiMOLAS: An intuitive web-based framework for genome-wide DNA methylation analysis.](#) *BMC Genomics*. 2020 Apr 2; 21(Suppl. 3): Article number 163.

National Institute of Cancer Research

1. Tai, CJ; Chen, JH; Tseng, TG; Lin, YT; Hsiao, YH; Lee, MC; Yang, YH. [Prediction of frailty and dementia using oral health impact profile from a population-based survey.](#) *International Journal of Environmental Research and Public Health.* 2020 Mar 18; 17(6): Article number 1997.
2. Ito, T; Kaku-Ito, Y; Murata, M; Furue, K; Shen, CH; Oda, Y; Furue, M. [Immunohistochemical BRAF V600E expression and intratumor BRAF V600E heterogeneity in acral melanoma: Implication in melanoma-specific survival.](#) *Journal of Clinical Medicine.* 2020 Mar 4; 9(3): Article number 690.
3. Wang, ST; Huang, SW; Liu, KT; Lee, TY; Shieh, JJ; Wu, CY. [Atorvastatin-induced senescence of hepatocellular carcinoma is mediated by downregulation of hTERT through the suppression of the IL-6/STAT3 pathway.](#) *Cell Death Discovery.* 2020 Mar 30; 6: Article number 17.
4. Chien, TM; Chan, TC; Huang, SK; Yeh, BW; Li, WM; Huang, CN; Li, CC; Wu, WJ; Li, CF. [Role of microtubule-associated protein 1b in urothelial carcinoma: Overexpression predicts poor prognosis.](#) *Cancers.* 2020 Mar 9; 12(3): Article number 630.
5. Chen, YL; Tsai, WH; Ko, YC; Lai, TY; Cheng, AJ; Shiah, SG; Hsiao, JR; Chang, JY; Lin, SF. [Discoidin domain receptor-1 \(DDR1\) is involved in angiolymphatic invasion in oral cancer.](#) *Cancers.* 2020 Mar 31; 12(4): Article number 841.
6. Roy, AC; Shapiro, J; Burge, M; Karapetis, CS; Pavlakis, N; Segelov, E; Chau, I; Lordick, F; Chen, LT; Barbour, A; Tebbutt, N; Price, T. [Management of early stage gastro-oesophageal cancers: Expert perspectives from the Australasian Gastrointestinal Trials Group \(AGITG\) with invited international faculty.](#) *Expert Review of Anticancer Therapy.* 2020 Mar 21; Article in Press.
7. de Bono, J; Lin, CC; Chen, LT; Corral, J; Michalarea, V; Rihawi, K; Ong, M; Lee, JH; Hsu, CH; Yang, JC; Shiah, HS; Yen, CJ; Anthony, A; Jove, M; Buschke, S; Fuertig, R; Schmid, U; Goeldner, RG; Strelkova, N; Huang, DC; Bogenrieder, T; Twelves, C; Cheng, AL. [Two first-in-human studies of xentuzumab, a humanised insulin-like growth factor \(IGF\)-neutralising antibody, in patients with advanced solid tumours.](#) *British Journal of*

- Cancer*. 2020 Mar 12; Article in Press.
8. Hsiao, TF; Wang, CL; Wu, YC; Feng, HP; Chiu, YC; Lin, HY; Liu, KJ; Chang, GC; Chien, KY; Yu, JS; Yu, CJ. [Integrative omics analysis reveals soluble cadherin-3 as a survival predictor and an early monitoring marker of EGFR tyrosine kinase inhibitor therapy in lung cancer](#). *Clinical Cancer Research*. 2020 Mar 10; Article in Press.
 9. Shiah, SG; Hsiao, JR; Chang, HJ; Hsu, YM; Wu, GH; Peng, HY; Chou, ST; Kuo, CC; Chang, JY. [MiR-30a and miR-379 modulate retinoic acid pathway by targeting DNA methyltransferase 3B in oral cancer](#). *Journal of Biomedical Science*. 2020 Apr 2; 27: Article number 46.
 10. Liao, WY; Hsu, CC; Chan, TS; Yen, CJ; Chen, WY; Pan, HW; Tsai, KK. [Dishevelled 1-regulated superpotent cancer stem cells mediate wnt heterogeneity and tumor progression in hepatocellular carcinoma](#). *Stem Cell Reports*. 2020 Mar 10; 14(3): 462-477.

National Institute of Environmental Health Sciences

1. Hung, IY; Shih, TT; Chen, BB; Liou, SH; Ho, IK; Guo, YL. [The roles of lumbar load thresholds in cumulative lifting exposure to predict disk protrusion in an Asian population](#). *BMC Musculoskeletal Disorders*. 2020 Mar 16; 21: Article number 169.
2. Ho, CC; Chen, YC; Yet, SF; Weng, CY; Tsai, HT; Hsu, JF; Lin, P. [Identification of ambient fine particulate matter components related to vascular dysfunction by analyzing spatiotemporal variations](#). *Science of the Total Environment*. 2020 Jun 1; 719: Article number 137243.
3. Wang, CW; Chuang, HY; Chiang, HC; Huang, PC; Yu, ML; Dai, CY. [Risk of hepatitis C virus infection in injecting and non-injecting drug users receiving opioid substitution therapy](#). *Journal of the Chinese Medical Association*. 2020 Mar 26; Article in Press.

National Institute of Infectious Diseases and Vaccinology

1. Kuo, FL; Khanh, TH; Chung, WY; Hung, NT; Luo, ST; Chang, WC; Nhan, LNT; Thinh, LQ; Lee, MS. [Seroprevalence of EV-A71 neutralizing antibodies following the 2011 epidemic in HCMC, Vietnam](#). *PLoS Neglected Tropical Diseases*. 2020 Mar; 14(3):

Article number e0008124.

2. Tzeng, TT; Chen, PL; Weng, TC; Tsai, SY; Lai, CC; Chou, HI; Chen, PW; Lu, CC; Liu, MT; Sung, WC; Lee, MS; Hu, AY. [Development of high-growth influenza H7N9 prepandemic candidate vaccine viruses in suspension MDCK cells](#). *Journal of Biomedical Science*. 2020 Apr 2; 27: Article number 47.
3. Shen, KY; Liu, HY; Yan, WL; Wu, CC; Lee, MH; Leng, CH; Liu, SJ. [Liposomal TLR9 agonist combined with TLR2 agonist-fused antigen can modulate tumor microenvironment through dendritic cells](#). *Cancers*. 2020 Mar 28; 12(4): Article number 810.
4. Chen, YH; Yu, SJ; Wu, KJ; Wang, YS; Tsai, HM; Liao, LW; Chen, S; Hsieh, W; Chen, H; Hsu, SC; Chen, ML; Hoffer, BJ; Wang, Y. [Downregulation of alpha-synuclein protein levels by an intracellular single-chain antibody](#). *Journal of Parkinson's Disease*. 2020 Mar 11; 10(2): 573-590.
5. Lai, YW; Chu, SY; Li, JC; Chen, PL; Chen, CH; Yu, HH. [Visualization of endogenous type I TGF-beta receptor baboon in the drosophila brain](#). *Scientific Reports*. 2020 Mar 20; 10: Article number 5132.

National Mosquito-Borne Diseases Control Research Center

1. Yang, MH; You, HP; Wu, HY; Chen, YA; Huang, YF; Tyan, YC. [Quantitative of progesterone using isotope dilution-matrix-assisted laser desorption ionization-time of flight mass spectrometry](#). *MethodsX*. 2020 Feb 20; 7: Article number 100812.
2. Yuan, HY; Liang, J; Lin, PS; Sucipto, K; Tsegaye, MM; Wen, TH; Pfeiffer, S; Pfeiffer, D. [The effects of seasonal climate variability on dengue annual incidence in Hong Kong: A modelling study](#). *Scientific Reports*. 2020 Mar 9; 10: Article number 4297.

Center for Neuropsychiatric Research

1. Hung, YW; Wang, Y; Lee, SL. [DPP-4 inhibitor reduces striatal microglial deramification after sensorimotor cortex injury induced by external force impact](#). *FASEB Journal*. 2020 Apr 4; Article in Press.
2. Lin, WY; Chan, CC; Liu, YL; Yang, AC; Tsai, SJ; Kuo, PH. [Sex-specific autosomal](#)

- [genetic effects across 26 human complex traits](#). *Human Molecular Genetics*. 2020 Mar 11; *Article in Press*.
3. Chen, YH; Yu, SJ; Wu, KJ; Wang, YS; Tsai, HM; Liao, LW; Chen, S; Hsieh, W; Chen, H; Hsu, SC; Chen, ML; Hoffer, BJ; Wang, Y. [Downregulation of alpha-synuclein protein levels by an intracellular single-chain antibody](#). *Journal of Parkinson's Disease*. 2020 Mar 11; 10(2): 573-590.

Immunology Research Center

1. Tsai, YT; Ruan, JW; Chang, CS; Ko, ML; Chou, HC; Lin, CC; Lin, CM; Huang, CT; Wei, YS; Liao, EC; Chen, HY; Kao, CY; Chan, HL. [Antrodia cinnamomea confers obesity resistance and restores intestinal barrier integrity in leptin-deficient obese mice](#). *Nutrients*. 2020 Mar 10; 12(3): Article number 726.

Graduate Student Program

1. Tsai, CY; Tsai, TH; Su, YF. [Surgical treatment of intraspinal tumors in Southern Taiwan: The 30-year experience of a single institution](#). *Journal of Clinical Neuroscience*. 2020 Mar 30; *Article in Press*.
2. Chu, MC; Lee, JY; Lee, HF; Chu, KW; Wu, HF; Lee, CW; Lin, CH; Tang, CW; Lin, HC. [Increased GABAergic inhibitory function against ischemic long-term potentiation in the CA1 region of the hippocampus](#). *Biochemical and Biophysical Research Communications*. 2020 Mar 30; *Article in Press*.
3. Limanjaya, I; Hsu, TI; Chuang, JY; Kao, TJ. [L-selectin activation regulates Rho GTPase activity via Ca\(+2\) influx in Sertoli cell line, ASC-17D cells](#). *Biochemical and Biophysical Research Communications*. 2020 Mar 13; *Article in Press*.
4. Lee, HH; Chen, CH; Luo, KH; Chuang, HY; Huang, CJ; Cheng, YK; Chen, F; Kuo, SH; Huang, MY. [Five-year survival outcomes of intensity-modulated radiotherapy with simultaneous integrated boost \(IMRT-SIB\) using forward IMRT or Tomotherapy for breast cancer](#). *Scientific Reports*. 2020 Mar 9; 10: Article number 4342.