

## NHRI Publication \_ May 2018

### Institute of Biomedical Engineering and Nanomedicine

1. Chao, SY; Li, CC; Liang, SK; Chiu, YS; Lin, YK; Hsu, CC; Chen, JK; Tsou, TC; Wang, IC. [Foxm1 mediates maintenance and progression of mouse lung tumor driven by oncogenic Kras](#). *Cancer Research*. 2018 May; 78(10, Suppl.): 60.
2. Cheng, CY; Liu, CJ; Huang, YC; Wu, SH; Fang, HW; Chen, YJ. [BI2536 induces mitotic catastrophe and radiosensitization in human oral cancer cells](#). *Oncotarget*. 2018 Apr 20; 9(30): 21231-21243.
3. Wen, SN; Chu, CH; Wang, YC; Huang, HY; Wang, YJ; Lin, JY; Lu, HT; Wang, SJ; Yang, CS. [Polymer-stabilized micelles reduce the drug rapid clearance in vivo](#). *Journal of Nanomaterials*. 2018 May 22; 2018: Article number 5818592.
4. Cheng, CY; Fang, HW. [Old age lower lip cancer defects reconstruction by abbe-estlander flap](#). *International Journal of Gerontology*. 2018 Apr 26; Article in Press.

### Institute of Biotechnology and Pharmaceutical Research

1. Lin, HM; Wu, PS; Hu, HS; Chang, WC; Wu, RH; Tian, JN; Chern, JH; Yueh, A. [Development of robust genotype 1a hepatitis C replicons harboring adaptive mutations for facilitating the antiviral drug discovery and study of virus replication](#). *Journal of Virological Methods*. 2018 Sep; 259: 10-17.

### Institute of Cellular and Systems Medicine

1. Hsieh, FY; Han, HW; Chen, XR; Yang, CS; Wei, Y; Hsu, SH. [Non-viral delivery of an optogenetic tool into cells with self-healing hydrogel](#). *Biomaterials*. 2018 May 9; 174: 31-40.
2. Chen, HL; Yuan, CY; Cheng, HH; Chang, TC; Huang, SK; Kuo, CC; Wu, KK. [Restoration of hydroxyindole O-methyltransferase levels in human cancer cells induces a tryptophan metabolic switch and attenuates cancer progression](#). *Journal of Biological Chemistry*. 2018 May 24; Article in Press.
3. Liu, FC; Lu, JW; Chien, CY; Huang, HS; Lee, CC; Lien, SB; Lin, LC; Chen, LW; Ho,

YJ; Shen, MC; Ho, LJ; Lai, JH. [Arthroprotective effects of Cf-02 sharing structural similarity with quercetin](#). *International Journal of Molecular Sciences*. 2018 May 14; 19(5): Article number 1453.

### Institute of Population Health Sciences

1. Lin, CH; Cheng, HM; Chuang, SY; Chen, CH. [Vascular aging and cognitive dysfunction: Silent midlife crisis in the brain](#). *Pulse*. 2018 Mar; 5(1-4): 127-132.
2. Wen, CP; Gao, W. PM2.5: [An important cause for chronic obstructive pulmonary disease?](#) *Lancet Planetary Health*. 2018 Mar; 2(3): e105-e106.
3. Trainor, LJ; Chang, A; Cairney, J; Li, YC. [Is auditory perceptual timing a core deficit of developmental coordination disorder?](#) *Annals of the New York Academy of Sciences*. 2018 May 9; Article in Press.
4. Chin, WS; Chang, YK; Huang, LF; Tsui, HC; Hsu, CC; Guo, YL. [Effects of long-term exposure to CO and PM2.5 on microalbuminuria in type 2 diabetes](#). *International Journal of Hygiene and Environmental Health*. 2018 Apr 23; Article in Press.
5. Huang, YC; Wahlqvist, ML; Lo, YTC; Lin, C; Chang, HY; Lee, MS. [A non-invasive modifiable Healthy Ageing Nutrition Index \(HANI\) predicts longevity in free-living older Taiwanese](#). *Scientific Reports*. 2018 May; 8: Article number 7113.
6. Liu, YC; Hong, HC; Yang, CD; Lee, WH; Huang, HT; Huang, HD. [Ouroboros resembling competitive endogenous loop \(ORCEL\) in circular RNAs revealed through transcriptome sequencing dataset analysis](#). *BMC Genomics*. 2018 May 9; 19(Suppl. 2): Article number 171.
7. Cairney, J; Chirico, D; Li, YC; Bremer, E; Graham, JD. [Are canadian-born major league baseball players more likely to bat left-handed? A partial test of the hockey-influence on batting hypothesis](#). *PLoS ONE*. 2018 May 2; 13(5): Article number e0195252.
8. Chen, SH; Kuo, WY; Su, SY; Chung, WC; Ho, JM; Lu, HHS; Lin, CY. [A gene profiling deconvolution approach to estimating immune cell composition from complex tissues](#). *BMC Bioinformatics*. 2018 May 8; 19: Article number 154.
9. Wen, CP; Su, TC; Shu, CC; Tsai, MK; Lee, JH; Lin, CL; Wen, C; Kao, CW. [The overlooked role of physical activity in mitigating the mortality risk in smokers and](#)

- [nonsmokers with COPD](#). *Tobacco Induced Diseases*. 2018 Mar; 16: 333-334.
10. Wai, JPM; Tsai, MK; Lee, JH; Lu, PJ; Kao, CW; Wen, CP; Lin, CL. [Encouraging physical activity for smokers: Benefits beyond expectation](#). *Tobacco Induced Diseases*. 2018 Mar; 16(Suppl. 1): 196-197.
  11. Tsai, SP; Wen, CP; Lu, PJ; Tsai, MK; Wen, C; Lee, JH; Lin, CL. [The life-shortening effect of smokers when accompanied by other common risks](#). *Tobacco Induced Diseases*. 2018 Mar; 16(Suppl. 1): 316.
  12. Wen, CP; Lu, PJ; Tsai, SP; Chiu, J; Tsai, MK; Lee, JH; Su, TC; Wen, C. [Smokers with a high normal heart rate \(80-99/min\) found their life span shortened by 13 years](#). *Tobacco Induced Diseases*. 2018 Mar 7-9; 16(Suppl. 1): 316-317.
  13. Chen, CC; Lin, BC; Yap, L; Chiang, PH; Chan, TC. [The association between ambient temperature and acute diarrhea incidence in Hong Kong, Taiwan, and Japan](#). *Sustainability*. 2018 May 3; 10(5): Article number 1417.
  14. Chang, HY; Fang, HL; Huang, CY; Hung, LS; Chien, KL; Pan, WH. [Estimating the calibrating coefficient of the framingham score to predict risk of coronary heart disease in the Taiwanese population](#). *International Journal of Gerontology*. 2018 May 26; Article in Press.

#### National Institute of Cancer Research

1. Chang, KP; Kolli, BK; Fan, CK; Ng, DKP; Wong, CTT; Manna, L; Corso, R; Shih, NY; Elliott, R; Jiang, XP; Shiao, SH; Fu, GL. [Progress toward development of photodynamic vaccination against infectious/malignant diseases and photodynamic mosquitocides](#). *Progress in Biomedical Optics and Imaging - Proceedings of SPIE*. 2018 Feb 8; 10479: Article number 1047912.
2. Coghill, AE; Bu, W; Hsu, WL; Nguyen, H; Yu, KJ; Chien, YC; Chen, CJ; Cohen, JI; Hildesheim, A. [Evaluation of total and IgA-specific antibody targeting Epstein-Barr virus glycoprotein 350 and nasopharyngeal carcinoma risk](#). *Journal of Infectious Diseases*. 2018 Apr 28; Article in Press.
3. Weng, TY; Wu, HF; Li, CY; Hung, YH; Chang, YW; Chen, YL; Hsu, HP; Chen, YH; Wang, CY; Chang, JY; Lai, MD. [Homoharringtonine induced immune alteration for an](#)

[efficient anti-tumor response in mouse models of non-small cell lung adenocarcinoma expressing Kras mutation](#). *Scientific Reports*. 2018 May 29; 8: Article number 8216.

### National Institute of Environmental Health Sciences

1. Chen, Y; Tsai, P; Wu, J; Guo, Y; Lin, C. [Will daytime environmental noise exposures induce nighttime sleep disturbance?](#) *Sleep*. 2018 Apr; 41(Suppl. 1): A140-A141.
2. Chao, SY; Li, CC; Liang, SK; Chiu, YS; Lin, YK; Hsu, CC; Chen, JK; Tsou, TC; Wang, IC. [Foxm1 mediates maintenance and progression of mouse lung tumor driven by oncogenic Kras](#). *Cancer Research*. 2018 May; 78(10, Suppl.): 60.
3. Wu, CF; Chen, HM; Sun, CW; Chen, ML; Hsieh, CJ; Wang, SL; Wu, MT. [Cohort profile: The Taiwan Maternal and Infant Cohort Study \(TMICS\) of phthalate exposure and health risk assessment](#). *International Journal of Epidemiology*. 2018 Apr 30: Article number dyy067.
4. Lin, H; Lin, P; Yang, L. [Hes1 regulates anagen initiation and hair follicle regeneration through modulation of hedgehog signaling](#). *Journal of Investigative Dermatology*. 2018 May; 138(5): S225.
5. Wang, HC; Wong, TH; Wang, LT; Su, HH; Yu, HY; Wu, AH; Lin, YC; Chen, HL; Suen, JL; Hsu, SH; Chen, LC; Zhou, Y; Huang, SK. [Aryl hydrocarbon receptor signaling promotes ORMDL3-dependent generation of sphingosine-1-phosphate by inhibiting sphingosine-1-phosphate lyase](#)[Erratum: *Cellular and Molecular Immunology*. 2018 Mar 23;Article in Press.]. *Cellular and Molecular Immunology*. 2018 May 16; Article in Press.
6. Tseng, CH. [Metformin and risk of developing nasopharyngeal cancer in patients with type 2 diabetes mellitus](#). *Metabolism: Clinical and Experimental*. 2018 Aug; 85: 223-226.
7. Hsu, CY; Chiang, HC; Shie, RH; Ku, CH; Lin, TY; Chen, MJ; Chen, NT; Chen, YC. [Ambient VOCs in residential areas near a large-scale petrochemical complex: Spatiotemporal variation, source apportionment and health risk](#). *Environmental Pollution*. 2018 May 3; 240: 95-104.
8. Lin, MY; Guo, YX; Chen, YC; Chen, WT; Young, LH; Lee, KJ; Wu, ZY; Tsai, PJ. [An](#)

- [instantaneous spatiotemporal model for predicting traffic-related ultrafine particle concentration through mobile noise measurements](#). *Science of the Total Environment*. 2018 Sep; 636: 1139-1148.
9. Chin, WS; Chang, YK; Huang, LF; Tsui, HC; Hsu, CC; Guo, YL. [Effects of long-term exposure to CO and PM2.5 on microalbuminuria in type 2 diabetes](#). *International Journal of Hygiene and Environmental Health*. 2018 Apr 23; Article in Press.
  10. Chen, HL; Yuan, CY; Cheng, HH; Chang, TC; Huang, SK; Kuo, CC; Wu, KK. [Restoration of hydroxyindole O-methyltransferase levels in human cancer cells induces a tryptophan metabolic switch and attenuates cancer progression](#). *Journal of Biological Chemistry*. 2018 May 24; Article in Press.
  11. Tseng, CH. [Metformin and risk of chronic obstructive pulmonary disease in diabetes patients](#). *Diabetes and Metabolism*. 2018 May 17; Article in Press.
  12. Wu, TH; Lee, LJH; Yuan, CT; Chen, TWW; Yang, JCH. [Prognostic factors and treatment outcomes of malignant pleural mesothelioma in Eastern Asian patients ;V A Taiwanese study](#). *Journal of the Formosan Medical Association*. 2018 Apr 27; Article in Press.
  13. Lee, HH; Chen, BY; Pan, SC; Lo, SH; Chen, PC; Guo, YL. [Effects of night duty events on blood pressure and autonomic modulation in physicians](#). *American Journal of Industrial Medicine*. 2018 May 20; Article in Press.

### **National Institute of Infectious Diseases and Vaccinology**

1. Ip, KU; Chang, JR; Liu, TH; Dou, HY; Lee, GB. [An integrated microfluidic system for identification of live mycobacterium tuberculosis by real-time polymerase chain reaction](#). *Micro Electro Mechanical Systems (MEMS), 2018 IEEE*. 2018 Apr 26; 2018-January: 1124-1127.
2. Teng, CF; Chang, HY; Tsai, HW; Hsieh, WC; Kuo, YH; Su, IJ; Lin, YJ. [Liver regeneration accelerates hepatitis B virus-related tumorigenesis of hepatocellular carcinoma](#). *Molecular Oncology*. 2018 May 4; Article in Press.
3. Chan, YL; Liao, CL; Lin, YL. [Human Kinase/Phosphatase-Wide RNAi screening identified checkpoint kinase 2 as a cellular factor facilitating Japanese encephalitis virus](#)

- [infection](#). *Frontiers in Cellular and Infection Microbiology*. 2018 May 17; 8: Article number 142.
4. Wang, YC; Huang, TW; Yang, YS; Kuo, SC; Chen, CT; Liu, CP; Liu, YM; Chen, TL; Chang, FY; Wu, SH; How, CK; Lee, YT. [Biofilm formation is not associated with worse outcome in Acinetobacter baumannii bacteraemic pneumonia](#). *Scientific Reports*. 2018 May; 8: Article number 7289.
  5. Liu, CP; Chiang, TT; Liu, YM; Kuo, SC; Yang, YS; Lee, YT; Chen, TL; Shih, SC; Chang, Y; Liu, YM; Kuo, SC; Liu, CP; Lee, YT; Yang, YS; The, ASG. [A multicenter study on clinical characteristics of Acinetobacter bacteremia in patients with liver cirrhosis](#). *Journal of Microbiology, Immunology and Infection*. 2018 Apr 25; Article in Press.
  6. Shih, CH; Lee, YJ; Chao, PW; Kuo, SC; Ou, SM; Huang, HM; Chen, YT. [Association between influenza vaccination and the reduced risk of acute kidney injury among older people: A nested case-control study](#). *European Journal of Internal Medicine*. 2018 May 1; Article in Press.
  7. Wang, YF; Chang, CF; Tsai, HP; Chi, CY; Su, IJ; Wang, JR. [Glycan-binding preferences and genetic evolution of human seasonal influenza A \(H3N2\) viruses during 1999-2007 in Taiwan](#). *PLoS ONE*. 2018 May 10; 13(5): Article number e0196727.

#### Center for Neuropsychiatric Research

1. Anttila, JE; Albert, K; Wires, ES; M?tlik, K; Loram, LC; Watkins, LR; Rice, KC; Wang, Y; Harvey, BK; [Airavaara, M. Post-stroke intranasal \(+\)-naloxone delivery reduces microglial activation and improves behavioral recovery from ischemic injury](#). *eNeuro*. 2018 Mar-Apr; 5(2): Article number e0395-17.2018.
2. Kao, CF; Liu, YL; Yu, YWY; Yang, AC; Lin, E; Kuo, PH; Tsai, SJ. [Gene-based analysis of genes related to neurotrophic pathway suggests association of BDNF and VEGFA with antidepressant treatment-response in depressed patients](#). *Scientific Reports*. 2018 May; 8: Article number 6983.
3. Wang, N; Chen, CY. [Alcohol drinking and problems in young populations: The challenge in Asia](#). *Current Opinion In Psychiatry*. 2018 Apr 26; Article in Press.