

## NHRI Publication [Feb 2017]

### Institute of Biomedical Engineering and Nanomedicine

1. Ke, CS; Fang, CC; Yan, JY; Tseng, PJ; Pyle, JR; Chen, CP; Lin, SY; Chen, J. [Molecular engineering and design of semiconducting polymer dots with narrow-band, near-infrared emission for in vivo biological imaging](#). *ACS Nano*. 2017 Feb 23; Article in Press.
2. Young, IC; Chuang, ST; Hsu, CH; Sun, YJ; Liu, HC; Chen, YS; Lin, FH. [Protective effects of aucubin on osteoarthritic chondrocyte model induced by hydrogen peroxide and mechanical stimulus](#). *BMC Complementary and Alternative Medicine*. 2017 Feb 02; 17: Article number 91.
3. Liu, JL; Yang, YT; Lin, CT; Yu, YJ; Chen, JK; Chu, LK. [Monitoring the transient thermal infrared emission of gold nanoparticles upon photoexcitation with a step-scan fourier-transform spectrometer](#). *Journal of Physical Chemistry C*. 2017 Jan; 121(1): 878-885.
4. Lin, CY; Huang, JY; Lo, LW. [Depicting binding-mediated translocation of HIV-1 Tat peptides in living cells with nanoscale pens of Tat-Conjugated quantum dots](#). *Sensors*. 2017 Feb 10; 17(2): Article number 315.

### Institute of Biotechnology and Pharmaceutical Research

1. Kang, IJ; Hsu, SJ; Yang, HY; Yeh, TK; Lee, CC; Lee, YC; Tian, YW; Song, JS; Hsu, TA; Chao, YS; Yueh, A; Chern, JH. [A potent, selective, and orally bioavailable HCV NS5A inhibitor for treatment of Hepatitis C Virus: \(S\)-1-\(\(R\)-2-\(Cyclopropanecarboxamido\)-2-phenylacetyl\)-N-\(4-phenylthiazol-2-yl\)pyrrolidine-2-carboxamide](#). *Journal of Medicinal Chemistry*. 2017 Jan; 60(1): 228-247.
2. Chao, PK; Ueng, SH; Ou, LC; Yeh, TK; Chang, WT; Chang, HF; Chen, SC; Tao, PL; Law, PY; Loh, HH; Cheng, MF; Chuang, JY; Chen, CT; Shih, C; Yeh, SH. [1-\(2,4-Dibromophenyl\)-3,6,6-trimethyl-1,5,6,7-tetrahydro-4H-indazol-4-one: A novel opioid receptor agonist with less accompanying gastrointestinal dysfunction than morphine](#). *Anesthesiology*. 2017 Feb 17; Article in Press.

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

1. Tseng, KY; Chen, YH; Lin, SK. [Zinc finger protein ZFP36L1 promotes osteoblastic differentiation but represses adipogenic differentiation of mouse multipotent cells.](#) *Oncotarget*. 2017 Feb 09; Article in Press.
2. Wu, CL; Su, TC; Chang, CC; Kor, CT; Chang, CH; Yang, TH; Chiu, PF; Tarng, DC. [Tubular peroxiredoxin 3 as a predictor of renal recovery from acute tubular necrosis in patients with chronic kidney disease.](#) *Scientific Reports*. 2017 Feb 27; 7: Article number 43589.
3. Lee, DY; Lin, TE; Lee, CI; Zhou, J; Huang, YH; Lee, PL; Shih, YT; Chien, S; Chiu, JJ. [MicroRNA-10a is crucial for endothelial response to different flow patterns via interaction of retinoid acid receptors and histone deacetylases.](#) *Proceedings of the National Academy of Sciences of the United States of America*. 2017 Feb 21; 114(8): 2072-2077.
4. Wu, CC; Chen, LJ; Hsieh, MY; Lin, TJ; Chiu, JJ. [Vascular smooth muscle cell-related microRNAs are up-regulated in human venous intimal hyperplasia of dialysis patients.](#) *European Heart Journal*. 2016 Aug; 37(Suppl. 1): 640.

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

1. Hsu, DS; Hwang, WL; Yuh, CH; Chu, CH; Ho, YH; Chen, PB; Lin, HS; Lin, HK; Wu, SP; Lin, CY; Hsu, WH; Lan, HY; Wang, HJ; Tai, SK; Hung, MC; Yang, MH. [Lymphotoxin-beta interacts with methylated EGFR to mediate acquired resistance to cetuximab in head and neck cancer.](#) *Clinical Cancer Research*. 2017 Feb 14; Article in Press.
2. Li, CH; Yen, CH; Chen, YF; Lee, KJ; Fang, CC; Zhang, X; Lai, CC; Huang, SF; Lin, HK; Arthur Chen, YM. [Characterization of the GNMT-HectH9-PREX2 tripartite relationship in the pathogenesis of hepatocellular carcinoma.](#) *International Journal of Cancer*. 2017 Feb 16; Article in Press.
3. Chen, YL; Huang, WC; Yao, HL; Chen, PM; Lin, PY; Feng, FY; Chu, PY. [Down-regulation of RASA1 is associated with poor prognosis in human hepatocellular carcinoma.](#) *Anticancer Research*. 2017 Feb; 37(2): 781-785.

### **Institute of Population Health Sciences**

1. Yao, TC; Chang, SW; Chang, WC; Tsai, MH; Liao, SL; Hua, MC; Lai, SH; Yeh, KW; Tseng, YL; Lin, WC; Tsai, HJ; Huang, JL. [Exposure to tobacco smoke and childhood](#)

- [rhinitis: A population-based study](#). *Scientific Reports*. 2017 Feb 16; 7: Article number 42836.
2. Hong, XM; Sherwood, B; Ladd-Acosta, C; Peng, SE; Ji, HK; Hao, K; Burd, I; Bartell, TR; Wang, GY; Tsai, HJ; Liu, X; Ji, YL; Wahl, A; Caruso, D; Lee-Parritz, A; Zuckerman, B; Wang, XB. [Genome-wide DNA methylation associations with spontaneous Preterm Birth in US blacks: Findings in maternal and cord blood samples](#). *Epigenetics*. 2017 Feb 06; Article in Press.
  3. Tsai, HJ; Surkan, PJ; Yu, SM; Caruso, D; Hong, X; Bartell, TR; Wahl, AD; Sampankanpanich, C; Reily, A; Zuckerman, BS; Wang, XB. [Differential effects of stress and African ancestry on preterm birth and related traits among US born and immigrant Black mothers](#). *Medicine*. 2017 Feb; 96(5): Article number 5899.
  4. Chen, CC; Liu, K; Hsu, CC; Chang, HY; Chung, HC; Liu, JS; Liu, YH; Tsai, TL; Liaw, WJ; Lin, IC; Wu, HW; Juan, CC; Chiu, HC; Lee, MM; Hsiung, CA. [Healthy lifestyle and normal waist circumference are associated with a lower 5-year risk of type 2 diabetes in middle-aged and elderly individuals: Results from the healthy aging longitudinal study in Taiwan \(HALST\)](#). *Medicine*. 2017 Feb; 96(6): Article number e6025.
  5. Huang, JC; Chen, SC; Tsai, YC; Kuo, IC; Chiu, YW; Chang, JM; Hwang, SJ; Chen, HC. [Prognostic significance of left ventricular mass index and renal function decline rate in Chronic Kidney Disease G3 and G4](#). *Scientific Reports*. 2017 Feb 14; 7: Article number 42578.
  6. Chen, YC; Weng, SC; Liu, JS; Chuang, HL; Hsu, CC; Tarng, DC. [Severe decline of estimated glomerular filtration rate associates with progressive cognitive deterioration in the elderly: A community-based cohort study](#). *Scientific Reports*. 2017 Feb 17; 7: Article number 42690.
  7. Lee, KH; Li, SY; Liu, JS; Huang, CT; Chen, YY; Lin, YP; Hsu, CC; Tarng, DC. [Association of warfarin with congestive heart failure and peripheral artery occlusive disease in hemodialysis patients with atrial fibrillation](#). *Journal of the Chinese Medical Association*. 2017 Feb 14; Article in Press.
  8. Kuo, SC; Shih, SM; Hsieh, LY; Lauderdale, TY; Chen, YC; Hsiung, CA; Chang, SC. [Antibiotic restriction policy paradoxically increased private drug consumptions outside Taiwan's National Health Insurance](#). *Journal of Antimicrobial Chemotherapy*. 2017 Feb 08; Article in Press.

9. Yang, TO; Huang, WT; Chen, MH; Huang, KA; Chen, PC. [Childhood cancer, type 1 diabetes and other immune diseases: Healthcare visits in the year before diagnosis in Taiwan](#). *Archives of Disease in Childhood*. 2017 Feb 08; Article in Press.
10. Yang, CC; Chen, YH; Chang, HY. [Joint regression analysis of marginal quantile and quantile association: Application to longitudinal body mass index in adolescents](#). *Journal of the Royal Statistical Society. Series C: Applied Statistics*. 2017 Feb; Article in Press.
11. Liu, CT; Lin, YC; Lin, YC; Kao, CC; Chen, HH; Hsu, CC; Wu, MS. [Roles of serum calcium, phosphorus, PTH and ALP on mortality in peritoneal dialysis patients: A nationwide, population-based longitudinal study using TWRDS 2005-2012](#). *Scientific Reports*. 2017 Dec; 7: Article number 33.
12. Wu, X; Tsai, SP; Tsao, CK; Chiu, ML; Tsai, MK; Lu, PJ; Lee, JH; Chen, CH; Wen, C; Chang, SS; Hsu, CY; Wen, CP. [Cohort Profile: The Taiwan MJ Cohort: Half a million Chinese with repeated health surveillance data](#). *International Journal of Epidemiology*. 2017 Feb 15; Article in Press.
13. Chang, HC; Yang, HC; Chang, HY; Yeh, CJ; Chen, HH; Huang, KC; Pan, WH. [Morbid obesity in Taiwan: Prevalence, trends, associated social demographics, and lifestyle factors](#). *PLoS ONE*. 2017 Feb 2; 12(2): Article number e0169577.
14. Wang, ST; Ho, HJ; Lin, JT; Shieh, JJ; Wu, CY. [Simvastatin-induced cell cycle arrest through inhibition of STAT3/SKP2 axis and activation of AMPK to promote p27 and p21 accumulation in hepatocellular carcinoma cells](#). *Cell Death and Disease*. 2017 Feb 23; 8(2): Article number e2626.
15. Wahlqvist, ML. [Food-based dietary guidelines \(FBDGs\): Their future](#). *Malaysian Journal of Nutrition*. 2017 Sep; 22(Suppl.): 3-5.
16. Ruan, SY; Teng, NC; Wu, HD; Tsai, SL; Wang, CY; Wu, CP; Yu, CJ; Chen, L. [Durability of weaning Success for liberation from invasive mechanical ventilation: An analysis of a nationwide database](#). *American Journal of Respiratory and Critical Care Medicine*. 2017 Feb 07; Article in Press.

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

1. Chen, YL; Huang, WC; Yao, HL; Chen, PM; Lin, PY; Feng, FY; Chu, PY. [Down-regulation of RASA1 is associated with poor prognosis in human hepatocellular carcinoma](#). *Anticancer Research*. 2017 Feb; 37(2): 781-785.

2. Li, CF; Liu, TT; Chuang, IC; Chen, YY; Fang, FM; Chan, TC; Li, WS; Huang, HY. [PLCB4 copy gain and PLCs4 overexpression in primary gastrointestinal stromal tumors: Integrative characterization of a lipid-catabolizing enzyme associated with worse disease-free survival](#). *Oncotarget*. 2017 Feb 13; Article in Press.
3. Su, MT; Wang, YT; Chen, YJ; Lin, SF. [The SWI/SNF chromatin regulator, BRG1, modulates the transcriptional regulatory activity of the EBV DNA polymerase processivity factor BMRF1](#). *Journal of Virology*. 2017 Feb 22; Article in Press.
4. Chiang, CF; Chao, TT; Su, YF; Hsu, CC; Chien, CY; Chiu, KC; Shiah, SG; Lee, CH; Liu, SY; Shieh, YS. [Metformin-treated cancer cells modulate macrophage polarization through AMPK-NF-kappaB signaling](#). *Oncotarget*. 2017 Feb 01; Article in Press.
5. Liao, CT; Wen, YW; Yang, LY; Lee, SR; Ng, SH; Liu, TW; Tsai, ST; Tsai, MH; Lin, JC; Chen, PR; Lou, PJ; Wang, CP; Chu, PY; Hwang, TZ; Leu, YS; Tsai, KY; Terng, SD; Chen, TM; Wang, CH; Chien, CY; Chen, WC; Lee, LY; Lin, CY; Wang, HM; Hsieh, CH; Tsao, CK; Fang, TJ; Huang, SF; Kang, CJ; Chang, KP; Yen, TC. [Comparative clinical outcomes of Taiwanese patients with resected buccal and tongue squamous cell carcinomas](#). *Oral Oncology*. 2017 Apr; 67: 95-102.
6. Hung, YN; Liu, TW; Wen, FH; Chou, WC; Tang, ST. [Escalating health care expenditures in cancer decedents' last year of life: A decade of evidence from a retrospective population-based cohort study in Taiwan](#). *Oncologist*. 2017 Feb 23; Article in Press.
7. Chen, MW; Yang, ST; Chien, MH; Hua, KT; Wu, CJ; Hsiao, SM; Lin, H; Hsiao, M; Su, JL; Wei, LH. [The STAT3-miRNA-92-Wnt signaling pathway regulates spheroid formation and malignant progression in ovarian cancer](#). *Cancer Research*. 2017 Feb 16; Article in Press.
8. Chen, HA; Chang, YW; Tseng, CF; Chiu, CF; Hong, CC; Wang, W; Wang, MY; Hsiao, M; Ma, JT; Chen, CH; Jiang, SS; Wu, CH; Hung, MC; Huang, MT; Su, JL. [E1A-mediated inhibition of HSPA5 suppresses cell migration and invasion in triple-negative breast cancer \[Erratum: Annals of Surgical Oncology. 2017; Article in Press.\]](#). *Annals of Surgical Oncology*. 2017 Feb 3; Article in Press.
9. Wang, ST; Ho, HJ; Lin, JT; Shieh, JJ; Wu, CY. [Simvastatin-induced cell cycle arrest through inhibition of STAT3/SKP2 axis and activation of AMPK to promote p27 and p21 accumulation in hepatocellular carcinoma cells](#). *Cell Death and Disease*. 2017 Feb 23; 8(2): Article number e2626.

## National Institute of Environmental Health Sciences

1. Chou, WC; Lee, PH; Tan, YY; Lin, HC; Yang, CW; Chen, KH; Chuang, CY. [An integrative transcriptomic analysis reveals bisphenol A exposure-induced dysregulation of microRNA expression in human endometrial cells](#). *Toxicology in Vitro*. 2017 Feb 23; Article in Press.
2. Duong, TV; Chang, PW; Yang, SH; Chen, MC; Chao, WT; Chen, T; Chiao, P; Huang, HL. [A new comprehensive short-form health literacy survey tool for patients in general](#). *Asian Nursing Research*. 2017 Feb 11; Article in Press.
3. Wang, CC; Lin, YC; Wang, SS; Shih, C; Lin, YH; Tung, CW. SkinSensDB: [A curated database for skin sensitization assays](#). *Journal of Cheminformatics*. 2017 Jan 31; 9: Article number 5.
4. Shieh, JM; Tang, YA; Hu, FH; Huang, WJ; Wang, YJ. [A histone deacetylase inhibitor enhances expression of genes inhibiting Wnt pathway and augments activity of DNA demethylation reagent against non-small cell lung cancer](#). *International Journal of Cancer*. 2017 Feb 24; Article in Press.
5. Chen, CY; Lin, P; Tsai, MH; Lee, HL. [Targeted lipidomics profiling of acute arsenic exposure in mice serum by on-line solid-phase extraction stable-isotope dilution liquid chromatography-tandem mass spectrometry](#). *Archives of Toxicology*. 2017 Feb 16; Article in Press.
6. Vriens, H; Mertens, D; Regret, R; Lin, P; Locquet, JP; Hoet, P. [Case study III: The construction of a nanotoxicity database - The MOD-ENP-TOX experience](#). *Advances in Experimental Medicine and Biology*. 2017 Feb 7; 947: 325-344.
7. Yang, TT; Hsu, CY; Chen, YC; Young, LH; Huang, CH; Ku, CH. [Characteristics, sources, and health risks of atmospheric PM2.5-bound polycyclic aromatic hydrocarbons in Hsinchu, Taiwan](#). *Aerosol and Air Quality Research*. 2017 Feb; 17(2): 563-573.
8. Wu, CD; Chen, YC; Pan, WC; Zeng, YT; Chen, MJ; Guo, YL; Lung, SC. [Land-use regression with long-term satellite-based greenness index and culture-specific sources to model PM2.5 spatial-temporal variability](#). *Environmental Pollution*. 2017 Feb 14; Article in Press.
9. Duong, TV; Aringazina, A; Baisunova, G; Nurjanah; Pham, TV; Pham, KM; Truong, TQ; Nguyen, KT; Oo, WM; Mohamad, E; Su, TT; Huang, HL; Sørensen, K; Pelikan, JM; Van



den Broucke, S; Chang, PW. [Measuring health literacy in Asia: Validation of the HLS-EU-Q47 survey tool in six Asian countries](#). *Journal of Epidemiology*. 2017 Feb; 27(2): 80-86.

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

1. Yang, FL; Lou, TC; Kuo, SC; Wu, WL; Chern, J; Lee, YT; Chen, ST; Zou, W; Lin, NT; Wu, SH. [A medically relevant capsular polysaccharide in \*Acinetobacter baumannii\* is a potential vaccine candidate](#). *Vaccine*. 2017 Mar 7; 3(10): 1440-1447.
2. Teng, CF; Wu, HC; Shyu, WC; Jeng, LB; Su, IJ. [Pre-S2 mutant-induced mammalian target of rapamycin signal pathways as potential therapeutic targets for Hepatitis B Virus-associated Hepatocellular Carcinoma](#). *Cell Transplantation*. 2017 Feb 14; Article in Press.
3. Kuo, SC; Shih, SM; Hsieh, LY; Lauderdale, TY; Chen, YC; Hsiung, CA; Chang, SC. [Antibiotic restriction policy paradoxically increased private drug consumptions outside Taiwan's National Health Insurance](#). *Journal of Antimicrobial Chemotherapy*. 2017 Feb 08; Article in Press.

### **Center for Neuropsychiatric Research**

1. Chao, PK; Ueng, SH; Ou, LC; Yeh, TK; Chang, WT; Chang, HF; Chen, SC; Tao, PL; Law, PY; Loh, HH; Cheng, MF; Chuang, JY; Chen, CT; Shih, C; Yeh, SH. [1-\(2,4-Dibromophenyl\)-3,6,6-trimethyl-1,5,6,7-tetrahydro-4H-indazol-4-one: A novel opioid receptor agonist with less accompanying gastrointestinal dysfunction than morphine](#). *Anesthesiology*. 2017 Feb 17; Article in Press.
2. Lin, CP; Kang, KH; Tu, HJ; Wu, MY; Lin, TH; Liou, HC; Sun, WZ; Fu, WM. [CXCL12/CXCR4 signaling contributes to the pathogenesis of opioid tolerance: A translational study](#). *Anesthesia and Analgesia*. 2017 Mar; 124(3): 972-979.
3. Lin, E; Tsai, SJ; Kuo, PH; Liu, YL; Yang, AC; Kao, CF; Yang, CH. [The rs1277306 variant of the REST gene confers susceptibility to cognitive aging in an elderly Taiwanese population](#). *Dementia and Geriatric Cognitive Disorders*. 2017 Feb 1; 43(3-4): 119-127.
4. Tsai, CH; Chen, MR; Lin, E; Tsai, SJ; Kuo, PH; Liu, YL; Yang, AC; Kao, CF; Yang, CH. [The ADAMTS9 gene is associated with cognitive aging in the elderly in a Taiwanese population](#). *PLoS ONE*. 2017 Feb 22; 12(2): Article number e0172440.
5. Lin, E; Tsai, SJ; Kuo, PH; Liu, YL; Yang, AC; Kao, CF. [Association and interaction effects of Alzheimer's disease-associated genes and lifestyle on cognitive aging in older adults in](#)

[a Taiwanese population](#). *Oncotarget*. 2017 Feb 11; Article in Press.

### **Graduate Student Program**

1. Sung, JY; Tani, J; Chang, TS; Lin, CS. [Uncovering sensory axonal dysfunction in asymptomatic type 2 diabetic neuropathy](#). *PLoS ONE*. 2017 Feb 9; 12(2): Article number e0171223.