

## NHRI Publication [Mar 2017]

### Institute of Biomedical Engineering and Nanomedicine

1. Wang, CF; Yang, SH; Lin, SH; Chen, PC; Lo, YC; Pan, HC; Lai, HY; Liao, LD; Lin, HC; Chen, HY; Huang, WC; Huang, WJ; Chen, YY. [A proof-of-principle simulation for closed-loop control based on preexisting experimental thalamic DBS-enhanced instrumental learning](#). *Brain Stimulation*. 2017 Feb 24; Article in Press.
2. Zhao, YF; Qiao, SP; Shi, SL; Yao, LF; Hou, XL; Li, CF; Lin, FH; Guo, K; Acharya, A; Chen, XB; Nie, Y; Tian, WM. [Modulating three-dimensional microenvironment with hyaluronan of different molecular weights alters breast cancer cell invasion behavior](#). *ACS Applied Materials and Interfaces*. 2017 Feb 27; 9(11): 9327-9338.
3. Gong, T; Hong, ZY; Chen, CH; Tsai, CY; Liao, LD; Kong, KV. [Optical interference-free surface-enhanced raman scattering CO-nanotags for logical multiplex detection of vascular disease-related biomarkers](#). *ACS Nano*. 2017 Feb 28; 11(3): 3365-3375.
4. Dong, GC; Chiu, LC; Ting, CK; Hsu, JR; Huang, CC; Chang, Y; Chen, GS. [A coaxial dual-element focused ultrasound probe for guidance of epidural catheterization: An experimental study](#). *Ultrasonic Imaging*. 2017 Mar 01; Article in Press.
5. Chen, NT; Souris, JS; Cheng, SH; Chu, CH; Wang, YC; Konda, V; Dougherty, U; Bissonnette, M; Mou, CY; Chen, CT; Lo, LW. [Lectin-functionalized mesoporous silica nanoparticles for endoscopic detection of premalignant colonic lesions](#). *Nanomedicine: Nanotechnology, Biology, and Medicine*. 2017 Mar 28; Article in Press.
6. Su, CY; Chen, CC; Huang, YL; Chen, SW; Fang, HW. [Optimization of biomolecular additives for a reduction of friction in the artificial joint system](#). *Tribology International*. 2017 Jul; 111: 220-225.

### Institute of Biotechnology and Pharmaceutical Research

1. Tsou, KL; Yount, JS; Hang, HC. [Epigallocatechin-3-gallate inhibits bacterial virulence and invasion of host cells](#). *Bioorganic and Medicinal Chemistry*. 2017 Mar 10; Article in Press.

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

1. Liang, SM; Lu, YJ; Ko, BS; Jan, YJ; Shyue, SK; Yet, SF; Liou, JY. [Cordycepin disrupts leukemia association with mesenchymal stromal cells and eliminates leukemia stem cell activity](#). *Scientific Reports*. 2017 Mar 07; 7: Article number 43930.
2. Chen, TH; Chen, CY; Wen, HC; Chang, CC; Wang, HD; Chuu, CP; Chang, CH. [YAP promotes myogenic differentiation via the MEK5-ERK5 pathway](#). *FASEB Journal*. 2017 Mar 29; Article in Press.

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

1. Chen, YT; Lai, YC; Tan, MC; Hsieh, LY; Wang, JT; Shiau, YR; Wang, HY; Lin, AC; Lai, JF; Huang, IW; Lauderdale, TL. [Prevalence and characteristics of pks genotoxin gene cluster-positive clinical \*Klebsiella pneumoniae\* isolates in Taiwan](#). *Scientific Reports*. 2017 Feb 24; 7: Article number 43120.
2. Chen, PM; Lin, CY; Chen, RF; Chen, YK; Chu, PY. [The efficacy of XELOX and FOLFOX adjuvant chemotherapy in stage III colorectal cancer patients with low preoperative serum albumin levels](#). *International Journal of Clinical and Experimental Medicine*. 2017 Feb 28; 10(2): 3162-3168.
3. Chang, YT; Lin, TP; Campbell, M; Pan, CC; Lee, SH; Lee, HC; Yang, MH; Kung, HJ; Chang, PC. [REST is a crucial regulator for acquiring EMT-like and stemness phenotypes in hormone-refractory prostate cancer](#). *Scientific Reports*. 2017 Mar 03; 7: Article number 42795.
4. Huang, SC; Huang, SF; Chen, YT; Chang, Y; Chiu, YT; Chang, IC; Wu, HDI; Chen, JS. [Overexpression of MutL homolog 1 and MutS homolog 2 proteins have reversed prognostic implications for stage I-II colon cancer patients](#). *Biomedical Journal*. 2017 Mar 14; Article in Press.
5. Chen, YL; Chan, SH; Lin, PY; Chu, PY. [The expression of a tumor suppressor gene JDP2 and its prognostic value in hepatocellular carcinoma \(HCC\) patients](#). *Human Pathology*. 2017 Mar 14; Article in Press.

## Institute of Population Health Sciences

1. Hsieh, MY; Chen, TY; Lin, L; Chuang, SY; Lin, SJ; Tarng, DC; Huang, PH; Wu, CC. [Deficiency of circulating progenitor cells associated with vascular thrombosis of hemodialysis patients](#). *Nephrology, Dialysis, Transplantation*. 2017 Jan 17; 32(3): 556-564.
2. Tsai, HJ; Yao, TC; Chang, SW; Chang, WC; Huang, JL. [Exposure to tobacco smoke and childhood rhinitis: A population-based study](#). *Journal of Allergy and Clinical Immunology*. 2017 Feb; 139(2. Suppl.): AB24.
3. Spracklen, CN; Chen, P; Kim, YJ; Wang, X; Cai, H; Li, S; Long, J; Wu, Y; Wang, YX; Takeuchi, F; Wu, JY; Jung, KJ; Hu, C; ... Chuang, SC; Du, S; Fan, Q; ... Hsiung, CA; Hu, Y; Hwang, MY; Hwu, CM; Isono, M; al, et. [Association analyses of East Asian individuals and trans-ancestry analyses with European individuals reveal new loci associated with cholesterol and triglyceride levels](#). *Human Molecular Genetics*. 2017 Feb 21; Article in Press.
4. Hsu, CC; Chang, HY; Wu, IC; Chen, CC; Tsai, HJ; Chiu, YF; Chuang, SC; Hsiung, WC; Tsai, TL; Liaw, WJ; Lin, IC; Shen, SC; Juan, CC; Lien, LM; Lee, M; Chen, YI; Liu, K; Hsiung, CA. [Cohort profile: The Healthy Aging Longitudinal Study in Taiwan \(HALST\)](#). *International Journal of Epidemiology*. 2017 Feb 27; Article in Press.
5. Wu, IC; CC, Lin; CS, Liu; CC, Hsu; CY, Chen; Hsiung, CA. [Interrelations between mitochondrial DNA copy number and inflammation in older adults](#). *Journals of Gerontology. Series A, Biological Sciences and Medical Sciences*
6. Yang, JY; Huang, JW; Chen, L; Chen, YY; Pai, MF; Tung, KT; Peng, YS; Hung, KY. [Frequency of early predialysis nephrology care and postdialysis cardiovascular events](#). *American Journal of Kidney Diseases*. 2017 Mar 02; Article in Press.
7. Lo, YC; Wahlqvist, ML; Huang, YC; Chuang, SY; Wang, CF; Lee, MS. [Medical costs of a low skeletal muscle mass are modulated by dietary diversity and physical activity in community-dwelling older Taiwanese: A longitudinal study](#). *International Journal of Behavioral Nutrition and Physical Activity*. 2017 Mar 14; 14: Article number 31.
8. Lai, YH; Chen, HC; Chen, LA; Chen, DT; Hung, HN. [Statistical inferences based on outliers for gene expression analysis](#). *Journal of Statistical Planning and Inference*. 2017 Mar 16; Article in Press.

9. Tseng, WC; Liu, JS; Hung, SC; Kuo, KL; Chen, YH; Tarng, DC; Hsu, CC. [Effect of spironolactone on the risks of mortality and hospitalization for heart failure in pre-dialysis advanced chronic kidney disease: A nationwide population-based study.](#) *International Journal of Cardiology.* 2017 Mar 17; Article in Press.
10. Wang, IK; Liu, CH; Yen, TH; Jeng, JS; Hsu, SP; Chen, CH; Lien, LM; Lin, RT; Chen, AC; Lin, HJ; Chi, HY; Lai, TC; Sun, Y; Lee, SP; Sung, SF; Chen, PL; Lee, JT; Chiang, TR; Lin, SK; Muo, CH; Ma, H; Wen, CP; Sung, FC; Hsu, CY; Investigators, Taiwan Stroke Registry. [Cholesterol levels are associated with 30-day mortality from ischemic stroke in dialysis patients.](#) *Journal of Stroke and Cerebrovascular Diseases.* 2017 Mar 21; Article in Press.
11. 13. Kuo, HW; Shih, CL; Tsung, JH; Liu, SW; Chu, SK; Yang, HC; Tsou, HH; Wang, ZH; Chen, AC; Liu, YL. [Pharmacogenomics study on cadherin 2 network with regard to HIV infection and methadone treatment outcome.](#) *PLoS ONE.* 2017 Mar 30; 12(3): Article number e0174647.
12. Chen, FC. [The challenges of joint performance to method patents.](#) *Expert Opinion on Therapeutic Patents.* 2017 Apr; 27(4): 393-399.
13. Hung, CC; Chang, HY; Chiang, YC; Wu, WC; Yen, LL. [Factors associated with levels of risky drinking in adolescent alcohol users in Taiwan: A secondary data analysis.](#) *Journal of Nursing Research.* 2017 Apr; 25(2): 163-172.
14. Hsu, MK; Lin, HY; Chen, FC. NMD Classifier: [A reliable and systematic classification tool for nonsense-mediated decay events.](#) *PLoS ONE.* 2017 Apr 03; 12(4): Article number e0174798.
15. Wu, YL; Chang, LY; Lee, HC; Fang, SC; Tsai, PS. [Sleep disturbances in fibromyalgia: A meta-analysis of case-control studies.](#) *Journal of Psychosomatic Research.* 2017 May; 96: 89-97.
16. Huang, PC; Tsai, CH; Chen, CC; Wu, MT; Chen, ML; Wang, SL; Chen, BH; Lee, CC; Jaakkola, JJK; Wu, WC; Chen, MK; Hsiung, CA; Group, R. [Intellectual evaluation of children exposed to phthalate-tainted products after the 2011 Taiwan phthalate episode.](#) *Environmental Research.* 2017 Jul; 156: 158-166.

## National Institute of Cancer Research

1. Chen, PM; Lin, CY; Chen, RF; Chen, YK; Chu, PY. [The efficacy of XELOX and FOLFOX adjuvant chemotherapy in stage III colorectal cancer patients with low preoperative serum albumin levels](#). *International Journal of Clinical and Experimental Medicine*. 2017 Feb 28; 10(2): 3162-3168.
2. Chang, JS; Hsiao, JR; Chen, CH. [ALDH2 polymorphism and alcohol-related cancers in Asians: A public health perspective](#). *Journal of Biomedical Science*. 2017 Mar 3; 24: Article number 19.
3. Chen, YL; Chan, SH; Lin, PY; Chu, PY. [The expression of a tumor suppressor gene JDP2 and its prognostic value in hepatocellular carcinoma \(HCC\) patients](#). *Human Pathology*. 2017 Mar 14; Article in Press.
4. Gunier, RB; Kang, A; Hammond, SK; Reinier, K; Lea, CS; Chang, JS; Does, M; Scelo, G; Kirsch, J; Crouse, V; Cooper, R; Quinlan, P; Metayer, C. [A task-based assessment of parental occupational exposure to pesticides and childhood acute lymphoblastic leukemia](#). *Environmental Research*. 2017 Mar 16; 156: 57-62.
5. Luo, CW; Wang, JY; Hung, WC; Peng, G; Tsai, YL; Chang, TM; Chai, CY; Lin, CH; Pan, MR. [G9a governs colon cancer stem cell phenotype and chemoradioresistance through PP2A-RPA axis-mediated DNA damage response](#). *Radiotherapy and Oncology*. 2017 Mar 25; Article in Press.
6. Ruan, D; He, J; Li, CF; Lee, HJ; Liu, J; Lin, HK; Chan, CH. [Skp2 deficiency restricts the progression and stem cell features of castration-resistant prostate cancer by destabilizing Twist](#). *Oncogene*. 2017 Mar 27; Article in Press.
7. Chen, YF; Chen, LH; Yeh, YM; Wu, PY; Chen, YF; Chang, LY; Chang, JY; Shen, MR. [Minoxidil is a potential neuroprotective drug for paclitaxel-induced peripheral neuropathy](#). *Scientific Reports*. 2017 Mar 28; 7: Article number 45366.
8. Pelzer, U; Blanc, JF; Melisi, D; Cubillo, A; Von Hoff, DD; Wang-Gillam, A; Chen, LT; Siveke, JT; Wan, Y; Solem, CT; Botteman, MF; Yang, Y; de Jong, FA; Hubner, RA. [Quality-adjusted survival with combination nal-IRI+5-FU/LV vs 5-FU/LV alone in metastatic pancreatic cancer patients previously treated with gemcitabine-based therapy: A Q-TWiST analysis](#). *British Journal of Cancer*. 2017 Mar 28; Article in Press.

**National Institute of Environmental Health Sciences**

1. Chen, LC; Tseng, HM; Kuo, ML; Wu, AH; Yeh, KW; Huang, JL; Huang, SK. [A composite of exhaled eicosanoids is associated with childhood asthma and its convalescence](#). *Journal of Allergy and Clinical Immunology*. 2017 Feb; 139(2, Suppl.): AB2.
2. Nakajima, M; Kawaguchi, M; Ota, K; Fujita, J; Matsukura, S; Huang, S-K; Morishima, Y; Ishii, Y; Satoh, H; Sakamoto, T; Hizawa, N. [IL-17F induces IL-6 via TAK1-NFkappaB pathway in airway smooth muscle cells](#). *Immunity, Inflammation and Disease*. 2017 Mar 3; Article in Press.
3. Ho, CC; Lee, HL; Chen, CY; Luo, YH; Tsai, MH; Tsai, HT; Lin, P. [Involvement of the cytokine-IDO1-AhR loop in zinc oxide nanoparticle-induced acute pulmonary inflammation](#). *Nanotoxicology*. 2017 Mar 13; Article in Press.
4. Fang, GC; Chen, YC; Lo, CT; Cho, MH; Zhuang, YJ; Tsai, KH; Huang, CY; Xiao, YF. [Concentrations and analysis of health risks of ambient air metallic elements at Longjing site in central Taiwan](#). *Environmental Geochemistry and Health*. 2017 Mar 16; Article in Press.
5. Wang, LT; Chiou, SS; Chai, CY; Hsi, E; Chiang, CM; Huang, SK; Wang, SN; Yokoyama, KK; Hsu, SH. [Transcription factor SPZ1 promotes TWIST-mediated epithelial-mesenchymal transition and oncogenesis in human liver cancer](#). *Oncogene*. 2017 Apr 03; Article in Press.
6. Ding, PH; Wang, GS; Guo, YL; Chang, SC; Wan, GH. [Urban air pollution and meteorological factors affect emergency department visits of elderly patients with chronic obstructive pulmonary disease in Taiwan](#). *Environmental Pollution*. 2017 May; 224: 751-758.
7. Luo, YH; Kuo, YC; Tsai, MH; Ho, CC; Tsai, HT; Hsu, C; Chen, YC; Lin, P. [Interleukin-24 as a target cytokine of environmental aryl hydrocarbon receptor agonist exposure in the lung](#). *Toxicology and Applied Pharmacology*. 2017 Jun 1; 324: 1-11.
8. Liou, SH; Wu, WT; Liao, HY; Chen, CY; Tsai, CY; Jung, WT; Lee, HL. [Global DNA methylation and oxidative stress biomarkers in workers exposed to metal oxide nanoparticles](#). *Journal of Hazardous Materials*. 2017 Jun 05; 331: 329-335.
9. Huang, PC; Tsai, CH; Chen, CC; Wu, MT; Chen, ML; Wang, SL; Chen, BH; Lee, CC;

- Jaakkola, JJK; Wu, WC; Chen, MK; Hsiung, CA; Group, R. [Intellectual evaluation of children exposed to phthalate-tainted products after the 2011 Taiwan phthalate episode](#). *Environmental Research*. 2017 Jul; 156: 158-166.
10. Hsu, CY; Chiang, HC; Chen, MJ; Chuang, CY; Tsen, CM; Fang, GC; Tsai, YI; Chen, NT; Lin, TY; Lin, SL; Chen, YC. [Ambient PM2.5 in the residential area near industrial complexes: Spatiotemporal variation, source apportionment, and health impact](#). *Science of the Total Environment*. 2017 Jul 15; 590-591: 204-214.
11. Lin, RT; Lin, CK; Christiani, DC; Kawachi, I; Cheng, Y; Verguet, S; Jong, S. [The impact of the introduction of new recognition criteria for overwork-related cardiovascular and cerebrovascular diseases: A cross-country comparison](#). *Scientific Reports*. 2017 Dec; 7: Article number 167.

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

1. Chen, YT; Chen, HT; Hsu, CY; Chao, PW; Kuo, SC; Ou, SM; Shih, CJ. [Dual antiplatelet therapy and clinical outcomes after coronary drug-eluting stent implantation in patients on hemodialysis](#). *Clinical Journal of the American Society of Nephrology*. 2017 Feb; 12(2): 262-271.
2. Chen, YT; Lai, YC; Tan, MC; Hsieh, LY; Wang, JT; Shiau, YR; Wang, HY; Lin, AC; Lai, JF; Huang, IW; Lauderdale, TL. [Prevalence and characteristics of pks genotoxin gene cluster-positive clinical \*Klebsiella pneumoniae\* isolates in Taiwan](#). *Scientific Reports*. 2017 Feb 24; 7: Article number 43120.
3. Yan, WL; Shen, KY; Tien, CY; Chen, YA; Liu, SJ. [Recent progress in GM-CSF-based cancer immunotherapy](#). *Immunotherapy*. 2017 Mar; 9(4): 347-360.
4. Liu, CC; Wu, SC; Wu, SR; Lin, HY; Guo, MS; Hu, AYC; Chow, YH; Chiang, JR; Shieh, DB; Chong, P. [Enhancing enterovirus A71 vaccine production yield by microcarrier profusion bioreactor culture](#). *Vaccine*. 2017 Mar 06; Article in Press.
5. Lee, YH; Hsueh, YW; Peng, YH; Chang, KC; Tsai, KJ; Sun, HS; Su, IJ; Chiang, PM. [Low-cell-number, single-tube amplification \(STA\) of total RNA revealed transcriptome changes from pluripotency to endothelium](#). *BMC Biology*. 2017 Mar 21; 15: Article number 22.
6. Tseng, YF; Weng, TC; Lai, CC; Chen, PL; Lee, MS; Hu, AYC. [A fast and efficient](#)

[purification platform for cell-based influenza viruses by flow-through chromatography.](#)  
*Vaccine*. 2017 Mar 22; Article in Press.

7. Yin, T; Kuo, SC; Chang, YY; Chen, YT; Wang, KK. [Verapamil use is associated with reduction of newly diagnosed diabetes mellitus.](#) *Journal of Clinical Endocrinology and Metabolism*. 2017 Mar 24; Article in Press.

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

1. Huang, MT; Chen, YL; Lien, CI; Liu, WL; Hsu, LC; Yagita, H; Chiang, BL. [Notch ligand DLL4 alleviates allergic airway inflammation via induction of a homeostatic regulatory pathway.](#) *Scientific Reports*. 2017 Mar 06; 7: Article number 43535.

### **Center for Neuropsychiatric Research**

1. Lee, MY; Lin, YR; Tu, YS; Tseng, YJ; Chan, MH; Chen, HH. [Effects of sarcosine and N, N-dimethylglycine on NMDA receptor-mediated excitatory field potentials.](#) *Journal of Biomedical Science*. 2017 Feb 28; 24: Article number 18.
2. Lin, E; Kuo, PH; Liu, YL; Yang, AC; Kao, CF; Tsai, SJ. [Effects of circadian clock genes and health-related behavior on metabolic syndrome in a Taiwanese population: Evidence from association and interaction analysis.](#) *PLoS ONE*. 2017 Mar 15; 12(3): Article number e0173861.
3. Kuo, HW; Shih, CL; Tsung, JH; Liu, SW; Chu, SK; Yang, HC; Tsou, HH; Wang, ZH; Chen, AC; Liu, YL. [Pharmacogenomics study on cadherin 2 network with regard to HIV infection and methadone treatment outcome.](#) *PLoS ONE*. 2017 Mar 30; 12(3): Article number e0174647.