

## NHRI Publication \_ Jul 2018

### Institute of Biomedical Engineering and Nanomedicine

1. Chen, YC; Hsu, YM; Tan, KP; Fang, HW; Chang, CH. [Intraarticular injection for rabbit knee osteoarthritis: Effectiveness among hyaluronic acid, platelet-rich plasma, and mesenchymal stem cells](#). *Journal of the Taiwan Institute of Chemical Engineers*. 2018 Jul 10; Article in Press.
2. Tew, LS; Cai, MT; Lo, LW; Khung, YL; Chen, NT. [Pollen-structured gold nanoclusters for X-ray induced photodynamic therapy](#). *Materials*. 2018 Jul 9; 11(7): Article number 1170.
3. Liao, BX; Tseng, NC; Li, Z; Liu, Y; Chen, JK; Tsai, CJ. [Exposure assessment of process by-product nanoparticles released during the preventive maintenance of semiconductor fabrication facilities](#). *Journal of Nanoparticle Research*. 2018 Jul; 20(7): Article number 203.

### Institute of Biotechnology and Pharmaceutical Research

1. Wang, HJ; Pochampalli, M; Wang, LY; Zou, JX; Li, PS; Hsu, SC; Wang, BJ; Huang, SH; Yang, P; Yang, JC; Chu, CY; Hsieh, CL; Sung, SY; Li, CF; Tepper, CG; Ann, DK; Gao, AC; Evans, CP; Izumiya, Y; Chuu, CP; Wang, WC; Chen, HW; Kung, HJ. [KDM8/JMJD5 as a dual coactivator of AR and PKM2 integrates AR/EZH2 network and tumor metabolism in CRPC](#). *Oncogene*. 2018 Aug; Article in Press.
2. Yang, CW; Chang, HY; Lee, YZ; Hsu, HY; Lee, SJ. [The cardenolide ouabain suppresses coronaviral replication via augmenting a Na\(+\)/K\(+\)-ATPase-dependent PI3K\\_PDK1 axis signaling](#). *Toxicology and Applied Pharmacology*. 2018 Jul 24; Article in Press.
3. M, RCC; Hsieh, HP; Coumar, MS. [Delineating the active site architecture of G9a lysine methyltransferase through substrate and inhibitor binding mode analysis: A molecular dynamics study](#). *Journal of Biomolecular Structure and Dynamics*. 2018 Jul 26; Article in Press.
4. Chen, YS; Fan, YH; Tien, CF; Yueh, A; Chang, RY. [The conserved stem-loop II structure at the 3' untranslated region of Japanese encephalitis virus genome is required](#)

[for the formation of subgenomic flaviviral RNA](#). *PLoS ONE*. 2018 Jul 26; 13(7): Article number e0201250.

### Institute of Cellular and Systems Medicine

1. Hsieh, CT; Liao, CY; Dai, NT; Tseng, CS; Yen, BL; Hsu, SH. [3D printing of tubular scaffolds with elasticity and complex structure from multiple waterborne polyurethanes for tracheal tissue engineering](#). *Applied Materials Today*. 2018 Sep; 12: 330-341.
2. Wang, HJ; Pochampalli, M; Wang, LY; Zou, JX; Li, PS; Hsu, SC; Wang, BJ; Huang, SH; Yang, P; Yang, JC; Chu, CY; Hsieh, CL; Sung, SY; Li, CF; Tepper, CG; Ann, DK; Gao, AC; Evans, CP; Izumiya, Y; Chuu, CP; Wang, WC; Chen, HW; Kung, HJ. [KDM8/JMJD5 as a dual coactivator of AR and PKM2 integrates AR/EZH2 network and tumor metabolism in CRPC](#). *Oncogene*. 2018 2018/08/02; Article in Press.
3. Baron, RM; Kwon, MY; Castano, AP; Ghanta, S; Riascos-Bernal, DF; Lopez-Guzman, S; Macias, AA; Ith, B; Schissel, SL; Lederer, JA; Reeves, R; Yet, SF; Layne, MD; Liu, X; Perrella, MA. [Frontline Science: Targeted expression of a dominant-negative high mobility group A1 transgene improves outcome in sepsis](#). *Journal of Leukocyte Biology*. 2018 Jul 5; Article in Press.

### Institute of Molecular and Genomic Medicine

1. Wang, HJ; Pochampalli, M; Wang, LY; Zou, JX; Li, PS; Hsu, SC; Wang, BJ; Huang, SH; Yang, P; Yang, JC; Chu, CY; Hsieh, CL; Sung, SY; Li, CF; Tepper, CG; Ann, DK; Gao, AC; Evans, CP; Izumiya, Y; Chuu, CP; Wang, WC; Chen, HW; Kung, HJ. [KDM8/JMJD5 as a dual coactivator of AR and PKM2 integrates AR/EZH2 network and tumor metabolism in CRPC](#). *Oncogene*. 2018 2018/08/02; Article in Press.
2. Lu, CH; Yeh, DW; Lai, CY; Liu, YL; Huang, LR; Lee, AY; Jin, SC; Chuang, TH. [USP17 mediates macrophage-promoted inflammation and stemness in lung cancer cells by regulating TRAF2/TRAF3 complex formation](#). *Oncogene*. 2018 Jul 23; Article in Press.
3. Chang, CC; Huang, YS; Lin, YM; Lin, CJ; Jeng, JC; Liu, SM; Ho, TL; Chang, RT; Changou, CA; Ho, CC; Shih, HM. [The role of sentrin-specific protease 2 substrate recognition in TGF- \$\beta\$ -induced tumorigenesis](#). *Scientific Reports*. 2018 Jun; 8: Article

- number 9786.
- Lo, HJ; Chen, YZ; You, MS. [A simple and noninvasive zebrafish egg infection model for studying pathogenic yeasts](#). *Medical Mycology*. 2018 Jun; 56(Suppl. 2): S68.
  - Weng, CJ; Lien, CH; Chen, CY; Yuh, CH; Chen, CJ; Lin, YS. [Compact fluorescence system with fiber-coupled LED for studying photobleaching](#). *Measurement*. 2018 Nov; 128: 84-88.

### Institute of Population Health Sciences

- Ji, Y; Riley, AW; Lee, LC; Hong, X; Wang, G; Tsai, HJ; Mueller, NT; Pearson, C; Thermitus, J; Panjwani, A; Ji, H; Bartell, TR; Burd, I; Fallin, MD; Wang, X. [Maternal biomarkers of acetaminophen use and offspring attention deficit hyperactivity disorder](#). *Brain Sciences*. 2018 Jul 3; 8(7): Article number 127.
- Hong, RL; Hsiao, CF; Ting, LL; Ko, JY; Wang, CW; Chang, JTC; Lou, PJ; Wang, HM; Tsai, MH; Lai, SC; Liu, TW. [Final results of a randomized phase III trial of induction chemotherapy followed by concurrent chemoradiotherapy versus concurrent chemoradiotherapy alone in patients with stage IVA and IVB nasopharyngeal carcinoma-Taiwan Cooperative Oncology Group \(TCOG\)](#). *Annals of Oncology*. 2018 Jul 17; Article in Press.
- Zekavat, SM; Ruotsalainen, S; Handsaker, RE; Alver, M; Bloom, J; Poterba, T; Seed, C; Ernst, J; Chaffin, M; Engreitz, J; Peloso, GM; Manichaikul, A; Yang, C; Ryan, KA; Fu, M; Johnson, WC; Tsai, M; Budoff, M; Ramachandran, VS; Cupples, LA; Rotter, JI; Rich, SS; Post, W; Mitchell, BD; Correa, A; Metspalu, A; Wilson, JG; Salomaa, V; Kellis, M; Daly, MJ; Neale, BM; McCarroll, S; Surakka, I; Esko, T; Ganna, A; Ripatti, S; Kathiresan, S; Natarajan, P; Damcott, C, .; Hsiung, CA; al, et. [Deep coverage whole genome sequences and plasma lipoprotein\(a\) in individuals of European and African ancestries](#). *Nature Communications*. 2018 Dec; 9: Article number 2606.
- Chang, TJ; Wang, WC; Hsiung, CA; He, CT; Lin, MW; Sheu, WHH; Chang, YC; Quertermous, T; Chen, YDI; Rotter, JI; Chuang, LM; Hwu, CM; Hung, YJ; Lee, WJ; Lee, IT; Group, The SAPPHIRe Study. [Genetic variation of SORBS1 gene is associated with glucose homeostasis and age at onset of diabetes: A SAPPHIRe cohort study](#). *Scientific Reports*. 2018 Jul 12; 8: Article number 10574.

5. Wang, SC; Chung, RH; Kuo, HW; Liu, TH; Fang, CP; Liu, SC; Liu, CC; Tsou, HH; Chen, ACH; Liu, YL. [GRK5 is associated with the regulation of methadone dosage in heroin dependence](#). *International Journal of Neuropsychopharmacology*. 2018 Jul 27; *Article in Press*.
6. Zhou, ZL; Tsai, JN; Tseng, MN; Liu, HL; Lin, CC; Chen, KT; Huang, KC; Huang, CH; Chu, WL; Chen, YZ; Chen, FC; Hsu, MK; Wang, SC; Peng, HL; Yang, YL; Chen, YC; Lo, HJ. [Genetically closely related azole-resistant \*Candida tropicalis\* in environments can be a threat to healthcare](#). *Medical Mycology*. 2018 Jun; 56(Suppl. 2): S60.
7. Chang, CH; Chiang, YT; Chen, L; Kuo, KN. [The influence of health policy on early diagnosis and surgical incidence of developmental dysplasia of the hip](#). *PLoS ONE*. 2018 Jul 30; 13(7): Article number e0200995.
8. Chen, CC; Wang, YH. [Benchmark dose calculation for ordered categorical responses with multiple endpoints](#). *Stochastic Environmental Research and Risk Assessment*. 2018 Jul 7; *Article in Press*.
9. Wang, WC; Chiu, YF; Chung, RH; Hwu, CM; Lee, IT; Lee, CH; Chang, YC; Hung, KY; Quertermous, T; Chen, YDI; Hsiung, CA. [IGF1 gene is associated with triglyceride levels in subjects with family history of hypertension from the SAPPHIRe and TWB projects](#). *International Journal of Medical Sciences*. 2018; 15(10): 1035-1042.
10. Lu, CW; Chang, CJ; Yang, YC; Lin, WY; Huang, KC. [Multicentre, placebo-controlled trial of lorcaserin for weight management in Chinese population](#). *Obesity Research and Clinical Practice*. 2018 Jul 19; *Article in Press*.
11. Lin, MY; Lee, CTC; Kuo, MC; Hwang, SJ; Chen, HC; Chiu, YW. [Effects of physician's specialty on regular chronic kidney disease care in predialysis](#). *Medicine*. 2018 Jun; 97(26): Article number e11317.
12. Liu, CL; Lin, MY; Hwang, SJ; Liu, CK; Lee, HL; Wu, MT. [Factors associated with type 2 diabetes in patients with vascular dementia: A population-based cross-sectional study](#). *BMC Endocrine Disorders*. 2018 Jul 4; 18: Article number 45.
13. Ko, KT; Yu, SH; Lee, CY; Tseng, HY; Chiu, YF; Hsiung, CA. [Moderating effect of depression on the association between pain and activities of daily living in older adults](#). *Psychogeriatrics*. 2018 Jul 10; *Article in Press*.

## National Institute of Cancer Research

1. Hong, RL; Hsiao, CF; Ting, LL; Ko, JY; Wang, CW; Chang, JTC; Lou, PJ; Wang, HM; Tsai, MH; Lai, SC; Liu, TW. [Final results of a randomized phase III trial of induction chemotherapy followed by concurrent chemoradiotherapy versus concurrent chemoradiotherapy alone in patients with stage IVA and IVB nasopharyngeal carcinoma-Taiwan Cooperative Oncology Group \(TCOG\)](#). *Annals of Oncology*. 2018 Jul 17; Article in Press.
2. Wang, HJ; Pochampalli, M; Wang, LY; Zou, JX; Li, PS; Hsu, SC; Wang, BJ; Huang, SH; Yang, P; Yang, JC; Chu, CY; Hsieh, CL; Sung, SY; Li, CF; Tepper, CG; Ann, DK; Gao, AC; Evans, CP; Izumiya, Y; Chuu, CP; Wang, WC; Chen, HW; Kung, HJ. [KDM8/JMJD5 as a dual coactivator of AR and PKM2 integrates AR/EZH2 network and tumor metabolism in CRPC](#). *Oncogene*. 2018 2018/08/02; Article in Press.
3. Lu, CH; Yeh, DW; Lai, CY; Liu, YL; Huang, LR; Lee, AY; Jin, SC; Chuang, TH. [USP17 mediates macrophage-promoted inflammation and stemness in lung cancer cells by regulating TRAF2/TRAF3 complex formation](#). *Oncogene*. 2018 Jul 23; Article in Press.
4. Lee, HY; Yeh, HC; Wu, WJ; He, JS; Huang, CN; Ke, HL; Li, WM; Li, CF; Li, CC. [The diagnostic ureteroscopy before radical nephroureterectomy in upper urinary tract urothelial carcinoma is not associated with higher intravesical recurrence](#). *World Journal of Surgical Oncology*. 2018 Jul; 16: Article number 13589.
5. Chang, HW; Wu, MJ; Lin, ZM; Wang, CY; Cheng, SY; Lin, YK; Chow, YH; Ch'ang, HJ; Chang, VHS. [Therapeutic effect of repurposed temsirolimus in lung adenocarcinoma model](#). *Frontiers in Pharmacology*. 2018; 9: Article number 778

## National Institute of Environmental Health Sciences

1. Tseng, CH. [Metformin and risk of hepatocellular carcinoma in patients with type 2 diabetes](#). *Liver International*. 2018 Jun 29; Article in Press.
2. Tseng, CH. [Metformin and risk of hypertension in Taiwanese patients with type 2 diabetes mellitus](#). *Journal of the American Heart Association*. 2018 Jul 1; 7(13): Article number e008860.
3. Tung, CW; Wang, CC; Wang, SS; Lin, P. [ChemDIS-Mixture: An online tool for](#)

- [analyzing potential interaction effects of chemical mixtures](#). *Scientific Reports*. 2018 Jul 3; 8: Article number 10047.
4. Tung, CW; Wang, SS. [ChemDIS 2: An update of chemical-disease inference system](#). *Database*. 2018 Jan 1; 2018: Article number bay077.
  5. Yang, YW; Liou, SH; Hsueh, YM; Lyu, WS; Liu, CS; Liu, HJ; Chung, MC; Hung, PH; Chung, CJ. [Risk of Alzheimer's disease with metal concentrations in whole blood and urine: A case-control study using propensity score matching](#). *Toxicology and Applied Pharmacology*. 2018 Jul 16; Article in Press.
  6. Lin, CY; Tsai, PJ; Lin, KY; Chen, CY; Chung, LH; Wu, JL; Guo, YL. [Will daytime occupational noise exposures induce nighttime sleep disturbance?](#) *Sleep Medicine*. 2018 Jun 6; 50: 87-96.
  7. Chou, WC; Tsai, WR; Chang, HH; Lu, SY; Lin, KF; Lin, P. [Prioritization of pesticides in crops with a semi-quantitative risk ranking method for Taiwan postmarket monitoring program](#). *Journal of Food and Drug Analysis*. 2018 Jul 3; Article in Press.
  8. Chen, CC; Yang, CY. [Effects of ambient air pollution exposure on frequency of hospital admissions for appendicitis in Taipei, Taiwan](#). *Journal of Toxicology and Environmental Health. Part A*. 2018 Jul 26; Article in Press.
  9. Lin, TJ; Guo, YL; Hsu, JC; Wang, IJ. [2-naphthol levels and allergic disorders in children](#). *International Journal of Environmental Research and Public Health*. 2018 Jul 9; 15(7): Article number 1449.
  10. Lai, WWP; Lin, YC; Wang, YH; Guo, YL; Lin, AYC. [Occurrence of emerging contaminants in aquaculture waters: Cross-contamination between aquaculture systems and surrounding waters](#). *Water, Air, and Soil Pollution*. 2018 AUG; 229: Article number 249.

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

1. Hsu, CY; Yeh, LT; Fu, SH; Chien, MW; Liu, YW; Miaw, SC; Chang, DM; Sytwu, HK. [SUMO-defective c-Maf preferentially transactivates I!21 to exacerbate autoimmune diabetes](#). *Journal of Clinical Investigation*. 2018 Jul 30; Article in Press.
2. Lin, YL; Chow, YH; Huang, LM; Hsieh, SM; Cheng, PY; Hu, KC; Chiang, BL. [A CpG- adjuvanted intranasal enterovirus 71 vaccine elicits mucosal and systemic immune](#)



- [responses and protects human SCARB2-transgenic mice against lethal challenge](#).  
*Scientific Reports*. 2018 Jul 16; 8: Article number 10713.
3. Chen, HL; Su, PY; Kuo, SC; Lauderdale, TLY; Shih, C. [Adding a C-terminal Cysteine \(CTC\) can enhance the bactericidal activity of three different Antimicrobial Peptides](#).  
*Frontiers in Microbiology*. 2018 Jun; 9: Article number 1440.
  4. Shao, HY; Chen, YC; Chung, NH; Lu, YJ; Chang, CK; Yu, SL; Liu, CC; Chow, YH. [Maternal immunization with a recombinant adenovirus-expressing fusion protein protects neonatal cotton rats from respiratory syncytia virus infection by transferring antibodies via breast milk and placenta](#). *Virology*. 2018 Aug; 521: 181-189.
  5. Lo, HJ; Zhou, ZL; Tsai, SH; Chu, WL; Chen, YZ; Chen, HF; Lee, CF; Lin, CC; Huang, CL; Wang, SC; Yang, YL. [Fruits are vehicles of drug resistant pathogenic yeasts](#).  
*Medical Mycology*. 2018 Jun; 56(Suppl. 2): S47.
  6. Lo, HJ; Chen, YZ; You, MS. [A simple and noninvasive zebrafish egg infection model for studying pathogenic yeasts](#). *Medical Mycology*. 2018 Jun; 56(Suppl. 2): S68.
  7. Zhou, ZL; Tsai, JN; Tseng, MN; Liu, HL; Lin, CC; Chen, KT; Huang, KC; Huang, CH; Chu, WL; Chen, YZ; Chen, FC; Hsu, MK; Wang, SC; Peng, HL; Yang, YL; Chen, YC; Lo, HJ. [Genetically closely related azole-resistant \*Candida tropicalis\* in environments can be a threat to healthcare](#). *Medical Mycology*. 2018 Jun; 56(Suppl. 2): S60.
  8. Wu, CJ; Wang, HC; Hsieh, MY; Choi, PC. [Comparison of the Sensititre YeastOne with CLSI M38-A2 microdilution methods for MIC determination of amphotericin B and azoles against \*Aspergilli\*](#). *Medical Mycology*. 2018 Jun; 56(Suppl. 2): S80.
  9. Chang, HW; Wu, MJ; Lin, ZM; Wang, CY; Cheng, SY; Lin, YK; Chow, YH; Ch'ang, HJ; Chang, VHS. [Therapeutic effect of repurposed temsirolimus in lung adenocarcinoma model](#). *Frontiers in Pharmacology*. 2018; 9: Article number 778

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

1. Chiu, HP; Chiu, H; Yang, CF; Lee, YL; Chiu, FL; Kuo, HC; Lin, RJ; Lin, YL. [Inhibition of Japanese encephalitis virus infection by the host zinc-finger antiviral protein](#). *PLoS Pathogens*. 2018 Jul; 14(7): Article number e1007166.

### Center for Neuropsychiatric Research

1. Chen, S; Yu, SJ; Li, Y; Lecca, D; Glotfelty, E; Kim, HK; Choi, HI; Hoffer, BJ; Greig, NH; Kim, DS; Wang, Y. [Post-treatment with PT302, a long-acting Exendin-4 sustained release formulation, reduces dopaminergic neurodegeneration in a 6-Hydroxydopamine rat model of Parkinson's disease](#). *Scientific Reports*. 2018 Jul 16; 8: Article number 10722.
2. Wang, SC; Chung, RH; Kuo, HW; Liu, TH; Fang, CP; Liu, SC; Liu, CC; Tsou, HH; Chen, ACH; Liu, YL. [GRK5 is associated with the regulation of methadone dosage in heroin dependence](#). *International Journal of Neuropsychopharmacology*. 2018 Jul 27; Article in Press.
3. Back, SM; Dossat, AM; Chen, YH; Wang, Y; Harvey, BK. [Activation of the Cytomegalovirus \(CMV\) promoter: Considerations for viral vector-mediated transgene expression](#). *Cell Transplantation*. 2018 Apr; 27(4): 682-683.
4. Harvey, BK; Trychta, KA; Back, SM; Dossat, AM; Yan, S; Anttila, J; Wu, KJ; Airavaara, M; Wang, Y; Henderson, M. [The tale of the tail of MANF: ER calcium homeostasis as a therapeutic target](#). *Cell Transplantation*. 2018 Apr; 27(4, Suppl. S1): 696.
5. Lin, E; Kuo, PH; Liu, YL; Yu, YWY; Yang, AC; Tsai, SJ. [A deep learning approach for predicting antidepressant response in major depression using clinical and genetic biomarkers](#). *Frontiers in Psychiatry*. 2018 Jul; 9: Article number 290.

### Immunology Research Center

1. Lu, CH; Yeh, DW; Lai, CY; Liu, YL; Huang, LR; Lee, AY; Jin, SC; Chuang, TH. [USP17 mediates macrophage-promoted inflammation and stemness in lung cancer cells by regulating TRAF2/TRAF3 complex formation](#). *Oncogene*. 2018 Jul 23; Article in Press.

### NHRI Graduate Student Program

1. Yang, WB; Chuang, JY; Ko, CY; Chang, WC; Hsu, TI. [Dehydroepiandrosterone induces temozolomide resistance through modulating phosphorylation and acetylation of Sp1 in glioblastoma](#). *Molecular Neurobiology*. 2018 Jul 18; Article in Press.