

## NHRI Publication \_ Sep 2018

### Institute of Biotechnology and Pharmaceutical Research

1. hLai, CH; Huang, JC; Cheng, HH; Wu, MC; Huang, MZ; Hsu, HY; Chen, YA; Hsu, CY; Pan, YJ; Chu, YT; Chen, TJ; Wu, YF; Sit, WY; Liu, JS; Chiu, YF; Wang, HJ; Wang, WC. [Helicobacter pylori cholesterol glucosylation modulates autophagy for increasing intracellular survival in macrophages](#). *Cellular Microbiology*. 2018 Aug 27; Article in Press.
2. Tsai, HJ; Jiaang, WT; Shih, NY; Fletcher, JA; Lin, MJ; Yang, MY; Chen, CT; Hsu, TAJ; Wu, CC; Lin, HY; Chen, LT. [BPR1J373, a novel multitargeted kinase inhibitor, effectively suppresses the growth of gastrointestinal stromal tumor](#). *Cancer Science*. 2018 Aug 24; Article in Press.

### Institute of Cellular and Systems Medicine

1. Lai, JH; Luo, SF; Ho, LJ. [Operation of mitochondrial machinery in viral infection-induced immune responses](#). *Biochemical Pharmacology*. 2018 Oct; 156: 348-356.
2. Wu, CC; Chen, LJ; Hsieh, MY; Lo, CM; Lin, MH; Tsai, HE; Song, HL; Chiu, JJ. [MicroRNA-21 and venous neointimal hyperplasia of dialysis vascular access](#). *Clinical Journal of the American Society of Nephrology : CJASN*. 2018 Sep 21; Article in Press.
3. Lin, CY; Jan, YJ; Kuo, LK; Wang, BJ; Huo, C; Jiang, SS; Chen, SC; Kuo, YY; Chang, CR; Chuu, CP. [Elevation of androgen receptor promotes prostate cancer metastasis by induction of epithelial-mesenchymal transition and reduction of KAT5](#). *Cancer Science*. 2018 Aug 24; Article in Press.
4. Pai, VC; Hsu, CC; Chan, TS; Liao, WY; Chuu, CP; Chen, WY; Li, CR; Lin, CY; Hwang, SP; Chen, LT; Tsai, KK. [ASPM promotes prostate cancer stemness and progression by augmenting Wnt-Dvl-3-beta-catenin signaling](#). *Oncogene*. 2018 Sep 28; Article in Press.

### Institute of Molecular and Genomic Medicine

1. Lin, YP; Wu, JI; Tseng, CW; Chen, HJ; Wang, LH. [Gjb4 serves as a novel biomarker for lung cancer and promotes metastasis and chemoresistance via Src activation](#). *Oncogene*.

- 2018 Sep 3; Article in Press.
- Li, JM; Tseng, CW; Lin, CC; Law, CH; Chien, YA; Kuo, WH; Chou, HC; Wang, WC; Chan, HL. [Upregulation of LGALS1 is associated with oral cancer metastasis.](#) *Therapeutic Advances in Medical Oncology*. 2018 Aug 24; 10: 1-20.
  - Huang, CC; Huang, MS; Chung, HJ; Chiu, SY; Yadav, P; Lin, Y; Liu, F; Matsuura, I. [Impaired mammary tumor formation and metastasis by the point mutation of a Smad3 linker phosphorylation site.](#) *Biochimica et Biophysica Acta - Molecular Basis of Disease*. 2018 Nov; 1864(11): 3664-3671.
  - Chiang, YJ; Liao, WT; Ho, KC; Wang, SH; Chen, YG; Ho, CL; Huang, SF; Shih, LY; Yang-Yen, HF; Yen, JJ. [CBAP modulates Akt-dependent TSC2 phosphorylation to promote Rheb-mTORC1 signaling and growth of T-cell acute lymphoblastic leukemia.](#) *Oncogene*. 2018 Sep 28; Article in Press.
  - Fang, CC; Wu, CF; Liao, YJ; Huang, SF; Chen, M; Chen, YMA. [AAV serotype 8-mediated liver specific GNMT expression delays progression of hepatocellular carcinoma and prevents carbon tetrachloride-induced liver damage.](#) *Scientific Reports*. 2018 Sep 14; 8: Article number 13802.

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

- Chen, YC; Huang, YC; Lo, YC; Wu, HJ; Wahlqvist, ML; Lee, MS. [Secular trend towards ultra-processed food consumption and expenditure compromises dietary quality among Taiwanese adolescents.](#) *Food and Nutrition Research*. 2018 Sep 17; 62: Article number 1565.
- Liou, JC; Yang, SL; Wang, PH; Wu, JL; Huang, YP; Chen, BY; Lee, MC. [Protective effect of crocin against the declining of high spatial frequency-based visual performance in mice.](#) *Journal of Functional Foods*. 2018 Oct; 49: 314-323.
- Liu, YY; Chen, CC. [Computational Analysis of the Molecular Mechanism of RamR Mutations Contributing to Antimicrobial Resistance in Salmonella enterica](#) [Erratum: Scientific Reports. 2017 Oct;7:Article number 13418.]. *Scientific Reports*. 2018 Oct 17; 8: Article number 14219.
- Graham, JD; Li, YC; Bray, SR; Cairney, J. [Effects of cognitive control exertion and motor coordination on task self-efficacy and muscular endurance performance in children.](#)

- Frontiers in Human Neuroscience*. 2018 Sep 24; 12: Article number 379.
5. Li, YC; Graham, JD; Cairney, J. [Moderating effects of physical activity and global self-worth on internalizing problems in school-aged children with developmental coordination disorder](#). *Frontiers in Psychology*. 2018 Sep; 9: Article number 1740.
  6. Chiu, YC; Pan, YC; Lin, YH. [Chinese adaptation of the Ten-Item Internet Gaming Disorder Test and prevalence estimate of Internet gaming disorder among adolescents in Taiwan](#). *Journal of Behavioral Addictions*. 2018 Sep 1; 7(3): 719-726.
  7. Yeo, YH; Hsu, CC; Lee, CC; Ho, HJ; Lin, JT; Wu, MS; Liou, JM; Wu, CY; Taiwan Gastrointestinal Disease and Helicobacter Consortium. [Systematic review with network meta-analysis: Effectiveness of therapies for second-line helicobacter pylori eradication](#). *Journal of Gastroenterology and Hepatology*. 2018 Aug 31; Article in Press.
  8. Yu, JC; Hsu, FC; Chiu, YF. [Assessment of fenofibrate-methylation interactions on triglycerides using longitudinal family data](#). *BMC Proceedings*. 2018 Sep 17; 12(Suppl. 9): Article number 48.
  9. Chien, LC; Chiu, YF. [General retrospective mega-analysis framework for rare variant association tests](#). *Genetic Epidemiology*. 2018 Sep 06; Article in Press.
  10. Tsai, JD; Mou, CH; Chang, HY; Li, TC; Tsai, HJ; Wei, CC. [Trend of subsequent epilepsy in children with recurrent febrile seizures: A retrospective matched cohort study](#). *Seizure*. 2018 Oct; 61: 164-169.
  11. Wu, SY; Hsu, LL; Hsu, CC; Hsieh, TJ; Su, SC; Peng, YW; Guo, TM; Kang, YW; Pan, WH. [Dietary education with customised dishware and food supplements can reduce frailty and improve mental well-being in elderly people: A single-blind randomized controlled study](#). *Asia Pacific Journal of Clinical Nutrition*. 2018 Sep; 27(5): 1018-1030.
  12. Lai, CC; Wu, CH; Wang, YH; Wang, CY; Wu, VC; Chen, LK. [The association between COPD and outcomes of patients with advanced chronic kidney disease](#). *International Journal of Chronic Obstructive Pulmonary Disease*. 2018 Sep 17; 13: 2899-2905.
  13. Huang, TM; Wu, VC; Lin, YF; Wang, JJ; Shiao, CC; Chen, L; Chueh, SJ; Chueh, E; Yang, SY; Lai, TS; Lin, SL; Chu, TS; Wu, KD; National Taiwan University Hospital Study Group on Acute Renal Failure. [Effects of statin use in advanced chronic kidney disease patients](#). *Journal of Clinical Medicine*. 2018 Sep 17; 7(9): Article number 285.
  14. Tsai, CF; Yip, PK; Teng, NC; Chen, LK. [Stroke incidence, subtypes, and trends in Taiwan](#)

- [in the early 21st century](#). *Cerebrovascular Diseases*. 2018 Sep 4; 46(Suppl. 1): 13.
15. Shiao, CC; Kan, WC; Wang, JJ; Lin, YF; Chen, L; Chueh, E; Huang, YT; Chiang, WP; Tseng, LJ; Wang, CH; Wu, VC. [Risk of incident non-valvular atrial fibrillation after dialysis-requiring acute kidney injury](#). *Journal of Clinical Medicine*. 2018 Aug 29; 7(9): Article number 248.
  16. Wu, CH; Chang, HM; Wang, CY; Chen, L; Chen, LW; Lai, CH; Kuo, SW; Wang, HC; Wu, VC; The National Taiwan University Study Group on Acute Renal Failure. [Long-term outcomes in patients with incident chronic obstructive pulmonary disease after acute kidney injury: A competing-risk analysis of a nationwide cohort](#). *Journal of Clinical Medicine*. 2018 Aug 24; 7(9): Article number 237.
  17. Zekavat, SM; Ruotsalainen, S; Handsaker, RE; Hsiung, CA ; ...; Casaburi, R; et al. [Deep coverage whole genome sequences and plasma lipoprotein\(a\) in individuals of European and African ancestries](#)[Erratum: *Nature Communications*. 2018 Dec;9:Article number 2606.1]. *Nature Communications*. 2018 Aug 23; 9: Article number 3493.
  18. Tsai, Z; Huang, Y; Huang, Y; Lin, C; Fang, H; Chiu, C; Kao, P; Weng, T; Lu, K; Lee, W; Gau, C; Tsai, H; Yao, T. [Maternal folic acid supplementation during pregnancy in relation to childhood rhinitis: A cohort study in Taiwan](#). *Allergy*. 2018 Aug; 73(Suppl. 105): 679.
  19. Huang, Y; Yao, T; Huang, Y; Tsai, Z; Chiu, C; Lu, K; Kao, P; Lin, C; Fang, H; Gau, C; Lee, W; Tsai, H. [Association of preterm birth with childhood eczema: A prospective cohort study in Taiwan](#). *Allergy*. 2018 Aug; 73(Suppl. 105): 684.
  20. Huang, Y; Yao, T; Huang, Y; Chiu, C; Tsai, Z; Kao, P; Lu, K; Fang, H; Lin, C; Gau, C; Lee, W; Tsai, H. [The relationship between preterm birth and childhood allergic rhinitis in Taiwan](#). *Allergy*. 2018 Aug; 73(Suppl. 105): 679.
  21. Fang, H; Lin, C; Huang, Y; Huang, Y; Tsai, Z; Chiu, C; Kao, P; Lu, K; Lee, W; Chun-Chun, G; Tsai, H; Yao, T. [Maternal pre-pregnancy overweight/obesity and development of allergic rhinitis and asthma in their offspring at age of 6 years](#). *Allergy*. 2018 Aug; 73(Suppl. 105): 333.
  22. Chiu, C; Yao, T; Lu, K; Huang, Y; Huang, Y; Cai, Z; Kao, P; Fang, H; Lin, C; Gau, C; Lee, W; Tsai, H. [Association between parental age and atopy in Asian school-age children](#). *Allergy*. 2018 Aug; 73(Suppl. 105): 331.
  23. Lu, K; Huang, Y; Huang, Y; Tsai, Z; Chiu, C; Lin, C; Fang, H; Kao, P; Lee, W; Gau, C;

- Tsai, H; Yao, T. [Examine the relationship between maternal vitamin D supplementation during pregnancy and eczema in their offspring in a cohort study of children aged 6 years.](#) *Allergy*. 2018 Aug; 73(Suppl. 105): 296.
24. Lin, C; Fang, H; Tsai, Z; Chiu, C; Huang, Y; Huang, Y; Lu, K; Kao, P; Lee, W; Gau, C; Tsai, H; Yao, T. [Body mass index and fat mass index in relation to atopy in school children.](#) *Allergy*. 2018 Aug; 73(Suppl. 105): 169.
25. Kao, P; Huang, Y; Huang, Y; Tsai, Z; Chiu, C; Lu, K; Fang, H; Lin, C; Gau, C; Lee, W; Tsai, H; Yao, T. Wu, CL; Kor, CT; Chang, CC; Chiu, PF; Tarng, DC; Hsu, CC. [Association of statin use with mortality after dialysis-requiring acute kidney injury: A population-based cohort study.](#) *Mayo Clinic Proceedings*. 2018 Oct; 93(10): 1474-1483.
27. Yang, TO; Huang, WT; Chen, MH; Huang, KYA; Chen, PC. [Sex differences in common childhood infections in Taiwan.](#) *International Journal of Infectious Diseases*. 2018 Oct; 75: 115-117.
28. Natarajan, P; Peloso, GM; Zekavat, SM; Hsiung, CA ; et al. [Deep-coverage whole genome sequences and blood lipids among 16,324 individuals.](#) *Nature Communications*. 2018 Aug 23; 9: Article number 3391.

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

1. Lin, CY; Jan, YJ; Kuo, LK; Wang, BJ; Huo, C; Jiang, SS; Chen, SC; Kuo, YY; Chang, CR; Chuu, CP. [Elevation of androgen receptor promotes prostate cancer metastasis by induction of epithelial-mesenchymal transition and reduction of KAT5.](#) *Cancer Science*. 2018 Aug 24; Article in Press.
2. Baskaran, R; Velmurugan, BK. [Protein phosphatase 2A as therapeutic targets in various disease models.](#) *Life Sciences*. 2018 Oct 1; 210: 40-46.
3. Lin, SP; Wu, CY; Wang, CB; Li, TC; Ko, NY; Shi, ZY. [Risk of diabetes mellitus in HIV-infected patients receiving highly active antiretroviral therapy: A nationwide population-based study.](#) *Medicine*. 2018 Sep; 97(36): Article number e12268.
4. hLuo, CW; Hsiao, IL; Wang, JY; Wu, CC; Hung, WC; Lin, YH; Chen, TY; Hsu, YC; Cheng, TL; Pan, MR. [Cell motility facilitated by mono\(2-ethylhexyl\) phthalate via activation of the AKT-beta-catenin-IL-8 axis in colorectal cancer.](#) *Journal of Agricultural and Food Chemistry*. 2018 Sep 6; 66(37): 9635-9644.

5. Chang, JS; Chen, LT; Shan, YS; Chu, PY; Tsai, CR; Tsai, HJ. [The incidence and survival of pancreatic cancer by histology, including rare subtypes: A nation-wide cancer registry-based study from Taiwan.](#) *Cancer Medicine*. 2018 Sep 27; Article in Press.
6. Tsai, HJ; Jiaang, WT; Shih, NY; Fletcher, JA; Lin, MJ; Yang, MY; Chen, CT; Hsu, TAJ; Wu, CC; Lin, HY; Chen, LT. [BPR1J373, a novel multitargeted kinase inhibitor, effectively suppresses the growth of gastrointestinal stromal tumor.](#) *Cancer Science*. 2018 Aug 24; Article in Press.
7. Pai, VC; Hsu, CC; Chan, TS; Liao, WY; Chuu, CP; Chen, WY; Li, CR; Lin, CY; Hwang, SP; Chen, LT; Tsai, KK. [ASPM promotes prostate cancer stemness and progression by augmenting Wnt-Dvl-3-beta-catenin signaling.](#) *Oncogene*. 2018 Sep 28; Article in Press.

#### National Institute of Environmental Health Sciences

1. Tseng, CH. [Pioglitazone reduces dementia risk in patients with type 2 diabetes Mellitus: A retrospective cohort analysis.](#) *Journal of Clinical Medicine*. 2018 Sep 27; 7(10): Article number 306.
2. Vicedo-Cabrera, AM;Guo, Y;Sera, F;... YL;Wu,;Gasparri, A; et al. [Temperature-related mortality impacts under and beyond Paris Agreement climate change scenarios.](#) *Climatic Change*. 2018 Sep 13; Article in Press.
3. Tseng, CH. [Metformin decreases risk of tuberculosis infection in type 2 diabetes patients.](#) *Journal of Clinical Medicine*. 2018 Sep 9; 7(9): Article number 2646.
4. Huang, CC; Tam, TYT; Chern, YR; Lung, SCC; Chen, NT; Wu, CD. [Spatial clustering of dengue fever incidence and its association with surrounding greenness.](#) *International Journal of Environmental Research and Public Health*. 2018 Aug 29; 15(9): Article number 1869.
5. Lin, YJ; Lin, P. [Probabilistic integrated human mixture risk assessment of multiple metals through seafood consumption.](#) *Risk Analysis*. 2018 Sep 3; Article in Press.
6. Wang, YC; Chen, YC; Ko, CY; Guo, YL; Sung, FC. [Pre-existing comorbidity modify emergency room visit for out-of-hospital cardiac arrest in association with ambient environments.](#) *PLoS ONE*. 2018 Sep 26; 13(9): Article number e0204593.
7. Wang, HC; Huang, SK. [Metformin inhibits IgE- and aryl hydrocarbon receptor-mediated mast cell activation in vitro and in vivo.](#) *European Journal of Immunology*. 2018 Sep 22;

*Article in Press.*

8. Wang, LT; Wang, SN; Chiou, SS; Liu, KY; Chai, CY; Chiang, CM; Huang, SK; Yokoyama, KK; Hsu, SH. [TIP60-dependent acetylation of the SPZ1-TWIST complex promotes epithelial-mesenchymal transition and metastasis in liver cancer.](#) *Oncogene*. 2018 Aug 28; *Article in Press.*
9. Chin, WS; Guo, YL; Liao, SC; Lin, KH; Kuo, CY; Chen, CC; Shiao, JSC. [Suicidality 6 years after occupational injury.](#) *Journal of Clinical Psychiatry*. 2018 Sep 4; 79(5): *Article number 17m11729.*
10. Wang, H; Lin, Y; Huang, S. [Metformin inhibits aryl hydrocarbon receptor-mediated mast cell activation.](#) *Allergy*. 2018 Aug; 73(Suppl. 105): 609-610.

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

1. Chen, MY; Hsu, WC; Hsu, SC; Yang, YS; Chuang, TH; Lin, WJ; Tan, TH; Su, YW. [PP4 deficiency leads to DNA replication stress that impairs immunoglobulin class switch efficiency.](#) *Cell Death and Differentiation*. 2018 Sep 20; *Article in Press.*
2. Hsu, CF; Hsiao, CH; Tseng, SF; Chen, JR; Liao, YJ; Chen, SJ; Lin, CS; Sytwu, HK; Chuang, YP. [PrtA immunization fails to protect against pulmonary and invasive infection by \*Streptococcus pneumoniae\*.](#) *Respiratory Research*. 2018 Sep 25; 19: *Article number 187.*
3. Lin, SY; Lu, PL; Tan, BH; Chakrabarti, A; Wu, UI; Yang, JH; Patel, AK; Li, RY; Watcharananan, SP; Liu, Z; Chindamporn, A; Tan, AL; Sun, PL; Hsu, LY; Chen, YC; Group, Asia Fungal Working. [The epidemiology of non-Candida yeasts isolated from blood: The Asia Surveillance Study.](#) *Mycoses*. 2018 Sep 19; *Article in Press.*
4. Sun, X; Duan, Y; Qin, C; Li, JC; Duan, G; Deng, X; Ni, J; Cao, X; Xiang, K; Tian, K; Chen, CH; Li, A; Fang, Y. [Distinct multilevel misregulations of Parkin and PINK1 revealed in cell and animal models of TDP-43 proteinopathy.](#) *Cell Death and Disease*. 2018 Sep 20; 9: *Article number 953.*
5. Yen, PS; James, A; Li, JC; Chen, CH; Failloux, AB. [Synthetic miRNAs induce dual arboviral-resistance phenotypes in the vector mosquito \*Aedes aegypti\*.](#) *Communications Biology*. 2018 Feb 8; 1: *Article number 11.*

### National Mosquito-Borne Diseases Control Research Center

1. Fang, CC; Wu, CF; Liao, YJ; Huang, SF; Chen, M; Chen, YMA. [AAV serotype 8-mediated liver specific GNMT expression delays progression of hepatocellular carcinoma and prevents carbon tetrachloride-induced liver damage](#). *Scientific Reports*. 2018 Sep 14; 8: Article number 13802.

### Center for Neuropsychiatric Research

1. Liu, QR; Huang, NS; Qu, H; O'Connell, JF; Gonzalez-Mariscal, I; Santa-Cruz-Calvo, S; Doyle, ME; Xi, ZX; Wang, Y; Onaivi, ES; Egan, JM. [Identification of novel mouse and rat CB1R isoforms and in silico modeling of human CB1R for peripheral cannabinoid therapeutics](#). *Acta Pharmacologica Sinica*. 2018 Sep 10; Article in Press.
2. 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 \[Erratum: Scientific Reports. 2018 Jul 16;8:Article number 10722.\]](#). *Scientific Reports*. 2018 Jul 16; 8: Article number 13953.
3. Chen, YL; Wu, SC; Chen, YT; Hsiao, PC; Yu, YH; Ting, TT; Chen, CY; Tu, YK; Huang, JH; Yang, HJ; Li, CY; Strong, C; Yen, CF; Yen, CF; Chen, WJ. [E-cigarette use in a country with prevalent tobacco smoking: A population-based study in Taiwan](#). *Journal of Epidemiology*. 2018 Sep 1; Article in Press.
4. Chen, HH; Chang, PC; Wey, SP; Chen, PM; Chen, C; Chan, MH. [Therapeutic effects of honokiol on motor impairment in hemiparkinsonian mice are associated with reversing neurodegeneration and targeting PPARgamma regulation](#). *Biomedicine and Pharmacotherapy*. 2018 Dec; 108: 254-262.
5. Lin, WY; Huang, CC; Liu, YL; Tsai, SJ; Kuo, PH. [Polygenic approaches to detect gene-environment interactions when external information is unavailable](#). *Briefings in Bioinformatics*. 2018 Sep 13; Article in Press.

### Immunology Research Center

1. Chuang, HC; Tsai, CY; Hsueh, CH; Tan, TH. [GLK-IKKbeta signaling induces dimerization and translocation of the AhR-RORgamma complex in IL-17A induction and](#)



- [autoimmune disease](#). Science Advances. 2018 Sep 12; 4(9): Article number eaat5401.
2. Peng, HY; Liang, YC; Tan, TH; Chuang, HC; Lin, YJ; Lin, JC. [RBM4A-SRSF3-MAP4K4 splicing cascade constitutes a molecular mechanism for regulating brown adipogenesis](#). International Journal of Molecular Sciences. 2018 Sep 6; 19(9): Article number 2646.
  3. Chen, MY; Hsu, WC; Hsu, SC; Yang, YS; Chuang, TH; Lin, WJ; Tan, TH; Su, YW. [PP4 deficiency leads to DNA replication stress that impairs immunoglobulin class switch efficiency](#). Cell Death and Differentiation. 2018 Sep 20; Article in Press.