

NHRI Publication _ Feb 2018

Institute of Biomedical Engineering and Nanomedicine

1. Tsai, HM; Souris, JS; Kim, HJ; Cheng, SH; Chen, CT; Lo, LW; Chen, L; Kao, CM. [Rapid measurement of fluorescence lifetimes using SIPM detection and waveform sampling](#). *2016 IEEE Nuclear Science Symposium, Medical Imaging Conference and Room-Temperature Semiconductor Detector Workshop (NSS/MIC/RTSD) 2016 Oct. 29 - Nov. 6; 2017 Oct*; Article number 8069566.
2. Liu, J; Cai, X; Pan, HC; Bandla, A; Chuan, CK; Wang, S; Thakor, N; Liao, LD; Liu, B. [Molecular engineering of photoacoustic performance by chalcogenide variation in conjugated polymer nanoparticles for brain vascular imaging](#). *Small*. 2018 Feb 7; Article in Press.
3. Yao, KT; Chen, CS; Cheng, CK; Fang, HW; Huang, CH; Kao, HC; Hsu, ML. [Optimization of the conical angle design in conical implant-abutment connections: A pilot study based on the finite element method](#). *Journal of Oral Implantology*. 2018 Feb; 44(1): 26-35.

Institute of Biotechnology and Pharmaceutical Research

1. Wu, CH; Song, JS; Kuan, HH; Wu, SH; Chou, MC; Jan, JJ; Tsou, LK; Ke, YY; Chen, CT; Yeh, KC; Wang, SY; Yeh, TK; Tseng, CT; Huang, CL; Wu, MH; Kuo, PC; Lee, CJ; Shia, KS. [Development of stem-cell-mobilizing agents targeting CXCR4 receptor for peripheral blood stem cell transplantation and beyond](#). *Journal of Medicinal Chemistry*. 2018 Feb 8; 61(3): 818-833.
2. Hsieh, HP; Hsu, JTA; Yeh, TK; Chen, CT. [Discovery and development of DBPR112 as a clinical candidate: A novel EGFR inhibitor for non-small cell lung cancer](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 739.
3. Richart, SM; Li, YL; Mizushima, Y; Chang, YY; Chung, TY; Chen, GH; Tzen, JTC; Shia, KS; Hsu, WL. [Synergic effect of curcumin and its structural analogue \(Monoacetylcurcumin\) on anti-influenza virus infection](#). *Journal of Food and Drug Analysis*. 2018 Feb 2; Article in Press.

Institute of Cellular and Systems Medicine

1. Ho, L; Hsu, SH. [Cell reprogramming by 3D bioprinting of human fibroblasts in polyurethane hydrogel for fabrication of neural-like constructs](#). *Acta Biomaterialia*. 2018 Feb 7; Article in Press.
2. Wang, LT; Jiang, SS; Ting, CH; Hsu, PJ; Chang, CC; Sytwu, HK; Liu, KJ; Yen, BL. [Differentiation of mesenchymal stem cells from human induced pluripotent stem cells results in downregulation of c-Myc and DNA replication pathways with immunomodulation toward CD4 and CD8 cells](#). *Stem Cells*. 2018 Feb 3; Article in Press.
3. Lee, DY; Yang, TL; Huang, YH; Lee, CI; Chen, LJ; Shih, YT; Wei, SY; Wang, WL; Wu, CC; Chiu, JJ. [Induction of microRNA-10a using retinoic acid receptor-alpha and retinoid x receptor-alpha agonists inhibits atherosclerotic lesion formation](#). *Atherosclerosis*. 2018 Feb 8; 271: 36-44.
4. hChuu, CP; Lin, CY; Wang, BJ. KDM4C: [A novel oncogene and prognostic biomarker for prostate cancer](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 1073.
5. Huang, SH; Lin, CY; Chuu, CP. [Role of ACTL6A in human prostate cancer cell](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 1074.
6. Lin, YT; Liang, SM; Lu, YJ; Kuo, CC; Liou, JY. [Cordycepin suppresses angiogenesis through regulation of FAK and p53 signaling](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 1037.

Institute of Molecular and Genomic Medicine

1. hHuang, YS; Lu, KC; Chao, TK; Chen, JS; Chen, A; Guo, CY; Hsieh, HY; Shih, HM; Sytwu, HK; Wu, CC. [Role of MTNR1A and PITX1 coexpression in protecting tubular epithelial cells in membranous nephropathy](#). *Journal of Pineal Research*. 2018 Feb 26; Article in Press.
2. Yang, WS; Campbell, M; Kung, HJ; Chang, PC. [In vitro SUMOylation assay to study SUMO E3 ligase activity](#). *Journal of Visualized Experiments : JoVE*. 2018 Jan 29(131): Article number e56629.

Institute of Population Health Sciences

1. Wei, CC; Kung, YJ; Chen, CS; Chang, CY; Lin, CJ; Tien, PT; Chang, HY; Chen, HJ;

- Huang, YS; Lin, HJ; Wan, L. [Allergic conjunctivitis-induced retinal inflammation promotes myopia progression](#). *EBioMedicine*. 2018 Jan 31; Article in Press.
2. Ma, CH; Chang, SS; Tsai, HJ; Gau, SS; Chen, IM; Liao, SC; Chien, YL; Hsieh, MH; Wu, CS. [Comparative effect of antipsychotics on risk of self-harm among patients with schizophrenia](#). *Acta Psychiatrica Scandinavica*. 2018 Feb 11; Article in Press.
 3. Wang, JY; Yao, TC; Tsai, YT; Wu, AC; Tsai, HJ. [Increased dose and duration of statin use is associated with decreased asthma-related emergency department visits and hospitalizations](#). *Journal of Allergy and Clinical Immunology: In Practice*. 2018 Feb 6; Article in Press.
 4. Wu, CC; Hwang, SJ; Hsu, CC; Lu, KC. [Challenges of measuring the Healthcare Access and Quality Index](#). *Lancet*. 2018 Feb; 391(10119): 428-429.
 5. hTseng, WC; Chen, YT; Ou, SM; Shih, CJ; Tarng, DC; Yang, CY; Lin, YP; Chuang, YF; Chen, LK; Wang, KY; Chen, YH; Tsai, MT; Lin, YS; Hung, SC; Kuo, KL; Hung, TP; Hu, FH; Chen, NJ; Chen, YC; Lin, CH; Tsai, TH; Hsieh, SL; Wei, YH; Hsu, CC; Liu, JS; Chang, YK; Chiang, MH. [U-shaped association between serum uric acid levels with cardiovascular and all-cause mortality in the elderly: The role of malnourishment](#). *Journal of the American Heart Association*. 2018 Feb; 7(4): Article number e007523.
 6. Tsao, PC; Yeh, HL; Chang, YC; Chiang, PH; Shiau, YS; Chiang, SH; Soong, WJ; Jeng, MJ; Hsiao, KJ. [Outcomes of neonatal jaundice in Taiwan](#). *Archives of Disease in Childhood*. 2018 Feb 22; Article in Press.
 7. Huang, LY; Wahlqvist, ML; Lee, MS; Chiang, PH. [Dietary quality linkage to overall competence at school and emotional disturbance in representative Taiwanese young adolescents: Dependence on gender, parental characteristics and personal behaviors](#). *Nutrition Journal*. 2018 Feb 22; 17: Article number 29.
 8. Tu, HK; Wen, CP; Tsai, SP; Chow, WH; Wen, C; Ye, YQ; Zhao, H; Tsai, MK; Huang, MS; Dinney, CP; Tsao, CK; Wu, XF. [Cancer risk associated with chronic diseases and disease markers: Prospective cohort study](#). *British Medical Journal*. 2018 Jan; 360: Article number k134.
 9. Chien, LH; Tseng, TJ; Tsai, FY; Wang, JH; Hsiung, CA; Liu, TW; Chang, IS. [Patterns of age-specific socioeconomic inequalities in net survival for common cancers in Taiwan, a country with universal health coverage](#). *Cancer Epidemiology*. 2018 Jan 20; 53: 42-48.

10. Hsu, CC; Wahlqvist, ML; Wu, IC; Chang, YH; Chang, IS; Tsai, YF; Liu, TT; Tsao, CK; Hsiung, CA. [Cardiometabolic disorder reduces survival prospects more than suboptimal body mass index irrespective of age or gender: A longitudinal study of 377,929 adults in Taiwan.](#) *BMC Public Health.* 2018 Feb 14; 18: Article number 142.
11. Mashima, I; Liao, YC; Miyakawa, H; Theodorea, CF; Thawboon, B; Thaweboon, S; Scannapieco, FA; Nakazawa, F. [Veillonella infantium sp. nov., an anaerobic, Gram-stain-negative coccus isolated from tongue biofilm of a Thai child.](#) *International Journal of Systematic and Evolutionary Microbiology.* 2018 Feb 16; Article in Press.
12. Chung, HF; Hsu, CC; Mamun, AA; Long, KZ; Huang, YF; Shin, SJ; Hwang, SJ; Huang, MC. [Dietary patterns, dietary biomarkers, and kidney disease in patients with type 2 diabetes: A repeated-measure study in Taiwan.](#) *Asia Pacific Journal of Clinical Nutrition.* 2018 Feb 1; 27(2): 366-374.
13. Chen, CH; Wu, MS; Wu, IC. [Vaccination coverage and associated factors for receipt of the 23-valent pneumococcal polysaccharide vaccine in Taiwan: A nation-wide community-based study.](#) *Medicine.* 2018 Feb; 97(5): Article number e9773.
14. Liu, X; Hong, X; Tsai, HJ; Mestan, KK; Shi, M; Kefi, A; Hao, K; Chen, Q; Wang, G; Caruso, D; Geng, H; Gao, Y; He, J; Kumar, R; Wang, H; Yu, Y; Bartell, T; Tan, XD; Schleimer, RP; Weeks, DE; Pongracic, JA; Wang, X. [Genome-wide association study of maternal genetic effects and parent-of-origin effects on food allergy.](#) *Medicine.* 2018 Mar; 97(9): Article number e0043.
15. hLung, FW; Chiang, TL; Lin, SJ; Lee, MC; Shu, BC. [Advanced maternal age and maternal education disparity in children with autism spectrum disorder.](#) *Maternal and Child Health Journal.* 2018 Feb 6; Article in Press.

National Institute of Cancer Research

1. hCoghill, AE; Pfeiffer, RM; Proietti, C; Hsu, WL; Chien, YC; Lekieffre, L; Krause, L; Teng, A; Pablo, J; Yu, KJP; Lou, PM; Wang, CP; Liu, Z; Chen, CJ; Middeldorp, J; Mulvenna, J; Bethony, J; Hildesheim, A; Doolan, DL. [Identification of a novel, EBV-based antibody risk stratification signature for early detection of nasopharyngeal carcinoma in Taiwan.](#) *Clinical Cancer Research.* 2018 Jan 4; Article in Press.
2. Chen, CC; Chen, LL; Li, CP; Hsu, YT; Jiang, SS; Fan, CS; Chua, KV; Huang, SX; Shyr,

- YM; Chen, LT; Huang, TS. [Myeloid-derived macrophages and secreted HSP90alpha induce pancreatic ductal adenocarcinoma development](#). *OncoImmunology*. 2018 Feb 1; Article in Press.
3. Hsu, MC; Hung, WC. [Pyruvate kinase M2 fuels multiple aspects of cancer cells: From cellular metabolism, transcriptional regulation to extracellular signaling](#). *Molecular Cancer*. 2018 Feb 19; 17: Article number 35.
 4. Wang, LT; Jiang, SS; Ting, CH; Hsu, PJ; Chang, CC; Sytwu, HK; Liu, KJ; Yen, BL. [Differentiation of mesenchymal stem cells from human induced pluripotent stem cells results in downregulation of c-Myc and DNA replication pathways with immunomodulation toward CD4 and CD8 cells](#). *Stem Cells*. 2018 Feb 3; Article in Press.
 5. Sung, YJ; Lee, AYL. [Lon restrains apoptosis via sequestering p53 in mitochondria under oxidative stress](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 225.
 6. Chiu, CF. [Epigenetic regulation of LDHA dictates the gemcitabine resistance in pancreatic cancer](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 1146.
 7. Chen, SH; Pan, HY; Li, CF; Cheung, CHA; Lin, CY; Hsu, SH; Chang, KY; Chang, JY. [O6BG modulates the repair activity of homologous recombination and its clinical application](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 379.
 8. Chang, JS; Hsiao, JR. [Oral microbiome and oral cancer risk](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 482.
 9. Weng, YL; Hsiao, JR; Chang, JS. [Daily fruit and vegetable intake is associated with a reduced head and neck cancer risk](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 326.
 10. Tsai, CR; Chang, JS; Shan, YS; Chen, LT. [Environmental tobacco smoke and risk of pancreatic cancer among never smokers](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 769.
 11. Chen, LT. [Role of academic institute in cancer therapy development in National Institute of Cancer Research, NHRI in Taiwan](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 43.
 12. Chen, JY; Luo, CW; Lai, YS; Wu, CC; Hung, WC. [Lysine demethylase KDM2A promotes cancer progression in triple-negative breast cancer by inhibiting TET2](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 246.
 13. Chen, YC; Liu, TW; Chang, JS; Yen, CY; Huang, TT; Hsiao, JR; Fan, SY; Wu, JL; Ou, CY; Yuan, SS; Liu, KJ. [The association between lifestyle factors and oral potentially malignant disorders in Taiwan](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 325.

14. Tsai, HJ; Chu, PY; Jiang, SS; Shan, YS; Hung, WC; Chen, MH; Lin, HY; Chen, YL; Chen, LT. [The role of aberrant mitochondrial phosphoenolpyruvate carboxykinase expression in pancreatic neuroendocrine tumors](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 466.
15. Chen, YW; Liu, SH; Liou, GG; Wang, SH; Chang, JS. [Laminin & gamma2-rich exosomes enhances lymphangiogenesis via Integrin & alpha3-mediated exosomal uptake](#). *Cancer Science*. 2018 Jan; 109(Suppl. 1): 29.
16. Hsu, YT; Tsai, HJ; Chang, JS; Li, SS; Tang, JL; Yeh, SP; Hwang, WL; Liu, JH; Tan, TD; Wang, PN; Hsiao, HH; Chen, TY. [Stem cell transplantation for T-cell lymphomas in Taiwan](#). *Bone Marrow Transplantation*. 2018 Feb 12; Article in Press.
17. Hou, MF; Chen, PM; Chu, PY. [LGR5 overexpression confers poor relapse-free survival in breast cancer patients](#). *BMC Cancer*. 2018 Feb 22; 18: Article number 219.
18. Chien, LH; Tseng, TJ; Tsai, FY; Wang, JH; Hsiung, CA; Liu, TW; Chang, IS. [Patterns of age-specific socioeconomic inequalities in net survival for common cancers in Taiwan, a country with universal health coverage](#). *Cancer Epidemiology*. 2018 Jan 20; 53: 42-48.
19. Hsu, CC; Wahlqvist, ML; Wu, IC; Chang, YH; Chang, IS; Tsai, YF; Liu, TT; Tsao, CK; Hsiung, CA. [Cardiometabolic disorder reduces survival prospects more than suboptimal body mass index irrespective of age or gender: A longitudinal study of 377,929 adults in Taiwan](#). *BMC Public Health*. 2018 Feb 14; 18: Article number 142.
20. Yao, CJ; Chuang, SE; Yang, YY; Lai, GM. [Human urine extract cell differentiation agent 2 protects PC12 cells from serum deprivation-induced apoptosis accompanied with priming of extracellular signal-regulated kinase activation and differentiation induction](#). *Chinese Journal of Integrative Medicine*. 2018 Feb 17; Article in Press.

National Institute of Environmental Health Sciences

1. hHsieh, WH; Lin, IF; Ho, JC; Chang, PW. [Reply to 'Comment on '30 years follow-up and increased risks of breast cancer and leukaemia after long-term low-dose-rate radiation exposure''](#). *British Journal of Cancer*. 2018 Feb 13; Article in Press.
2. Huang, YF; Huang, CJ; Lu, CA; Chen, ML; Liou, SH; Chiang, SY; Wu, KY. [Feasibility of using urinary N7-\(2-carbamoyl-2-hydroxyethyl\) Guanine as a biomarker for acrylamide exposed workers](#). *Journal of Exposure Science & Environmental Epidemiology*. 2018 Feb 20; Article in Press.

3. Tung, CW; Wang, CC; Wang, SS. [Mechanism-informed read-across assessment of skin sensitizers based on SkinSensDB](#). *Regulatory Toxicology and Pharmacology*. 2018 Apr; 94: 276-282.
4. Tseng, CH. [Metformin and helicobacter pylori infection in patients with type 2 diabetes](#). *Diabetes Care*. 2018 Feb 1; Article in Press.

National Institute of Infectious Diseases and Vaccinology

1. [Huang, MH;Huang, CY;Chong, PCS;Leng, CH;Liu, SJ;Chen, HW](#). 用於穩定油包水乳液及控制釋放生物活性物質之山梨醇酐聚酯複合體. I598114/2017-09-11.
2. Huang, CH; Huang, CY; Huang, MH. [Unsaturated squalene content in emulsion vaccine adjuvants plays a crucial role in ROS-Mediated antigen uptake and cellular immunity](#). *Molecular Pharmaceutics*. 2018 Feb 5; 15(2): 420-429.
3. Li, MC; Chang, TC; Chen, HM; Wu, CJ; Su, SL; Lee, SSJ; Chen, PL; Lee, NY; Lee, CC; Li, CW; Syue, LS; Ko, WC. [Oligonucleotide array and VITEK matrix-assisted laser desorption ionization-time of flight mass spectrometry in species identification of blood yeast isolates](#). *Frontiers in Microbiology*. 2018 Jan; 9: Article number 51.
4. Chia, MY; Chung, WY; Wang, CH; Chang, WH; Lee, MS. [Development of a high-growth enterovirus 71 vaccine candidate inducing cross-reactive neutralizing antibody responses](#). *Vaccine*. 2018 Feb 21; 36(9): 1167-1173.

Center for Biomedical Resource

1. Chien, LH; Tseng, TJ; Tsai, FY; Wang, JH; Hsiung, CA; Liu, TW; Chang, IS. [Patterns of age-specific socioeconomic inequalities in net survival for common cancers in Taiwan, a country with universal health coverage](#). *Cancer Epidemiology*. 2018 Jan 20; 53: 42-48.

Center for Neuropsychiatric Research

1. Tzeng, NS; Chung, CH; Lin, FH; Chiang, CP; Yeh, CB; Huang, SY; Lu, RB; Chang, HA; Kao, YC; Yeh, HW; Chiang, WS; Chou, YC; Tsao, CH; Wu, YF; Chien, WC. [Anti-herpetic medications and reduced risk of dementia in patients with herpes simplex virus infections-a nationwide, population-based cohort study in Taiwan](#). *Neurotherapeutics*. 2018 Feb 27; Article in Press.

2. Tzeng, NS; Chung, CH; Liu, FC; Chiu, YH; Chang, HA; Yeh, CB; Huang, SY; Lu, RB; Yeh, HW; Kao, YC; Chiang, WS; Tsao, CH; Wu, YF; Chou, YC; Lin, FH; Chien, WC.
[Fibromyalgia and risk of dementia-A nationwide, population-based, cohort study.](#)
American Journal of the Medical Sciences. 2018 Feb; 355(2): 153-161.