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EDUCATION

Ph.D., Department of Biomedical Engineering and Environmental Sciences, National Tsing-Hua University, Hsin-Chu, Taiwan

PROFESSIONAL EXPERIENCE

- 2015.8 ~ **Assistant Professor**, Graduate Institute of Cancer Biology, China Medical University, Taichung, Taiwan
- 2014.8 ~ **Assistant Research Fellow**, Research Center for Tumor Medical Science, China Medical University, Taichung, Taiwan
- 2012.11 – 2014.7 **Postdoctoral Fellow**, Pediatric Neurosurgery, Department of Surgery, Cheng Hsin General Hospital, Taipei, Taiwan
- 2011.4 – 2012.10 **Postdoctoral Fellow**, Division of Pediatric Neurosurgery, Neurological Center, Taipei Veterans General Hospital, Taipei, Taiwan,

RESEARCH INTEREST

Genomics, Bioinformatics, Next Generation Sequencing

PUBLICATIONS

1. **Cheng WC**, Chung IF, Tsai CF, Huang TS, Cheng CY, Wang SC, Chang TY, Sun HJ, Chao YC, Cheng CC, Wu CW and Wang HW. YM500v2: A small RNA sequencing (smRNA-seq) database for human cancer miRNome research. *Nucleic Acids Research*, 2015 JAN:43(D1):D862-867 (SCI, IF: 9.112; 6.92% in BIOCHEMISTRY & MOLECULAR BIOLOGY)
2. Wang HW, Sun HJ, Chang TY, Lo HH, **Cheng WC**, Tseng GC, Lin CT, Chang SJ, Pal N, and Chung IF. Discovering monotonic stemness marker genes from time-series stem cell microarray data. *BMC Genomics*, 2015 JAN:16 Suppl 2:S2 (SCI, IF: 3.986; 16.04% in BIOTECHNOLOGY & APPLIED MICROBIOLOGY)
3. Tsai YP, Chen HF, Chen SY, **Cheng WC**, Wang HW, Shen ZJ, Song C, Teng SC, He C, Wu KJ. TET1 regulates hypoxia-induced epithelial-mesenchymal transition by acting as a co-activator. *Genome Biol.* 2014 DEC:15(12):513. (SCI, IF: 10.810; 4.19% in BIOTECHNOLOGY & APPLIED MICROBIOLOGY)
4. Huang HN, Chen SY, Hwang SM, Yu CC, Su MW, Mai W, Wang HW, **Cheng WC**, Schuyler SC, Ma N, Lu FL, Lu J. miR-200c and GATA binding protein 4 regulate human embryonic stem cell renewal and differentiation. *Stem cell research*. 2014 MAR:12(2):338-353 (SCI, IF: 3.693; 19.13% in BIOTECHNOLOGY & APPLIED MICROBIOLOGY)
5. Chen KH, Wang KJ, Tsai ML, Wang KM, Adrian AM, **Cheng WC**, Yang TS, Teng NC, Tan KP, Chang KS. Gene selection for cancer identification: a decision tree model empowered by particle swarm optimization algorithm. *BMC Bioinformatics*. 2014, FEB:15(1):49. (SCI, IF: 2.576; 17.85% in MATHEMATICAL & COMPUTATIONAL BIOLOGY)
6. **Cheng WC**, Chung IF, Chen CY, Sun HJ, Fen JJ, Teng WC, Chang TY, Wong TT*, Wang HW*. DriverDB: A exome sequencing (exome-seq) database for cancer driver gene identification. *Nucleic Acids Research*, 2014, JAN:42(D1):D1048-1054 (SCI, IF: 9.112; 6.92% in BIOCHEMISTRY & MOLECULAR BIOLOGY)
7. **Cheng WC**, Chung IF, Huang TS, Chang ST, Sun HJ, Wong TT*, Wang HW*. YM500: A small RNA Sequencing (smRNA-Seq) database for miRNA research. *Nucleic Acids Research*, 2013, JAN:41(D1): D285-D294. (SCI, IF: 9.112; 6.92% in BIOCHEMISTRY & MOLECULAR BIOLOGY)

8. Li CY, Chiang CS, **Cheng WC**, Chen CR, Shu WY, Tsai ML, Huang CL, Chang HZ, Hseu RS, Chang CW, Fang SH, Hsu IC. Gene expression profiling of dendritic cells in different physiological stages under Cordyceps sinensis treatment. *PLoS One*, 2012, JUL:7(7): e40824. (SCI, IF: 3.234; 14.5% in BIOLOGY)
9. **Cheng WC**, Shu WY, Li CY, Tsai ML, Chang CW, Chen CR, Wang TH, Hsu IC. Inter- and intra-individual variance of gene expression in clinical studies. *PLoS One*, 2012, JUN:7(6):e38650. (SCI, IF: 3.234; 14.28% in BIOLOGY)
10. Chen CR, Shu WY, Tsai ML, **Cheng WC**, Hsu IC. THEME: a web tool for loop-design microarray data analysis. *Computers in Biology and Medicine*, 2012, FEB:42(2): 228-234. (SCI, IF: 1.240; 57.64% in BIOLOGY)
11. Chang CW, **Cheng WC**, Chen CR, Shu WY, Tsai ML, Huang CL, Hsu IC. Identification of Human Housekeeping Genes and Tissue-Selective Genes by Microarray Meta-Analysis. *PLoS One*, 2011, JUL:6(7): e22859. (SCI, IF: 3.234; 14.28% in BIOLOGY)
12. **Cheng WC**, Chang CW, Chen CR, Tsai ML, Shu WY, Li CY, Hsu IC. Identification of Reference Genes across Physiological States for qRT-PCR through Microarray. *PLoS One*, 2011, FEB:6(2): e17347. (SCI, IF: 3.234; 14.28% in BIOLOGY)
13. Li CY, Chao LP, Wang SC, Tsai ML, Chang HZ, Fang SH, Liao PC, Ho CL, Chen ST, **Cheng WC**, Chiang CS, Hua KF, Hsu IC. Honokiol Inhibits LPS-induced Maturation and Inflammatory Response on Human Monocyte-derived Dendritic Cells. *Journal of Cellular Physiology*. 2010, SEP:226(9): 2338-2349. (SCI, IF: 3.839; 18.07% in PHYSIOLOGY)
14. **Cheng WC**, Tsai ML, Chang CW, Huang CL, Chen CR, Shu WY, Lee YS, Wang TH, Hong JH, Li CY, Hsu IC. Microarray Meta-analysis Database (M²DB): A Uniformly Pre-processed, Quality Controlled, and Manually Curated Human Clinical Microarray Database. *BMC Bioinformatics*. 2010, AUG:10;11(1):421. (SCI, IF: 2.576; 17.85% in MATHEMATICAL & COMPUTATIONAL BIOLOGY)