Guangchuang Yu

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http://guangchuangyu.github.io

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2013-2017 PhD; The University of Hong Kong; Evolution Study of Influenza A Virus

(expected) 2006-2009

MSc; Anhui Medical University; Biochemistry and Molecular Biology

2001-2005 BSc; South China Agricultural University; *Biotechnology*

2015 Institut Pasteur, Paris; *Train the Trainers 2015*

Professional Experience

2015 INDA Steering Committee; International Network for Data Analysis, Institut Pas-

teur

2009-2013 Bioinformatician; College of Life Science and Technology, Jinan University

2007-2009 Visiting Student; Beijing Institute of Radiation Medicine

Software Development

- ChIPseeker: ChIP peak Annotation, Comparison and Visualization
- clusterProfiler: Comparing biological themes among gene clusters
- DOSE: Disease Ontology Semantic and Enrichment analysis
- ggtree: Phylogenetic tree viewer for different types of tree annotations
- GOSemSim: GO-terms and gene samantic similarity measures
- ReactomePA: Reactome pathway analysis

Awards

- 2013-2017, Postgraduate Studentships (for PhD students at The University of Hong Kong)
- 2012, Best paper of the year 2010, Journal of Integrated OMICS.

----Grants

 2013 (completed), PI, Investigate functions of hnRNPK in regulating cytokinesis of human lung cancer cell, Fundamental Research Funds for the Central Universities (21613414), 100,000 • 2011 (completed), PI, Dynamic proteomic analysis of HeLa cell cycle, Fundamental Research Funds for the Central Universities (21611303), 20,000

Publications

Citation = 435, H-index = 10, I10-index = 11 (data from **Google Scholar**, Jan 2016)

- 1. **G Yu**, DK Smith, H Zhu, Y Guan, TTY Lam*. ggtree: an R package for visualization and annotation of phylogenetic tree with different types of meta-data. *Methods in Ecology and Evolution*. Submitted.
- 2. **G Yu**, QY He. ReactomePA: an R/Bioconductor package for reactome pathway analysis and visualization. *Molecular BioSystems*. 2016, Accepted.
- 3. **G Yu***, LG Wang, QY He*. **ChIPseeker: an R/Bioconductor package for ChIP peak annotation, comparision and visualization. Bioinformatics**. 2015, 31(14):2382-2383.
- 4. **G Yu***, LG Wang, GR Yan, QY He*. **DOSE: an R/Bioconductor package for Disease Ontology Semantic and Enrichment analysis.** *Bioinformatics*. 2015, 31(4):608-609.
- X Sun[†], G Yu[†], Q Xu, N Li, C Xiao, X Yin, K Cao, J Han, QY He^{*}. Putative cobalt- and nickel-binding proteins and motifs in Streptococcus pneumonia. Metallomics. 2013, 5(7):928-935.
- 6. YY Zhu[†], **G Yu**[†], Y Zhang, Z Xu, YQ Huang, GR Yan^{*}, QY He^{*}. **A novel andrographolide derivative AL-1 exerts its cytotoxicity on K562 cells through a ROS-dependent mechanism.** *Proteomics*, 2013, 13(1):169-178.
- 7. **G** Yu[†], LG Wang[†], XH Meng, QY He^{*}. **LXtoo:** an integrated live Linux distribution for the bioinformatics community. *BMC Research Notes*. 2012, 5(1):360.
- 8. **G Yu**, LG Wang, Y Han, QY He*. clusterProfiler: an R package for comparing biological themes among gene clusters. *OMICS: A Journal of Integrative Biology*. 2012, 16(5):284-287.
- 9. **G Yu**, QY He*. Functional similarity analysis of human virus-encoded miRNAs. *Journal of Clinical Bioinformatics*. 2011, 1(1):15.
- 10. **G** Yu[†], CL Xiao[†], X Bo, CH Lu, Y Qin, S Zhan, QY He^{*}. **A new method for measuring functional similarity of microRNAs**. *Journal of Integrated OMICS*. 2011, 1(1):49-54.
- 11. **G** Yu[†], CL Xiao[†], CH Lu[†], HT Jia, F Ge, W Wang, XF Yin, HL Jia, JX He^{*}, QY He^{*}. **Phosphoproteome profile of human lung cancer cell line A549**. *Molecular BioSystems*. 2011, 7(2):472-479.
- 12. **G Yu**[†], F Li[†], Y Qin, X Bo^{*}, Y Wu, S Wang^{*}. **GOSemSim: an R package for measuring semantic similarity among GO terms and gene products**. *Bioinformatics*. 2010, 26(7):976-978.
- 13. XY Yang, K He, G Du, X Wu, **G Yu**, Y Pan, G Zhang, X Sun, QY He. Integrated Translatomics with Proteomics to Identify Novel Iron–Transporting Proteins in *Streptococcus pneumoniae*. *Frontiers Microbiology*. 2016, Accepted
- 14. PY Huang, CCD Lee, CH Yip, CL Cheung, **G Yu**, TTY Lam, DK Smith, H Zhu^{*}, Y Guan^{*}. **Genetic** characterization of highly pathogenic **H5** influenza viruses from poultry in Taiwan, **2015**. *Infection, Genetics and Evolution*. 2016, 38:96-100.
- 15. SH Xu, JZ Huang, ML Xu, **G Yu**, XF Yin, D Chen*, GR Yan*. **ACK1 Promotes Gastric Cancer Epithelial-Mesenchymal Transition and Metastasis through AKT-POU2F1-ECD Signaling**. *The Journal of Pathology*. 2015, 236(2):175-185.
- 16. Z Guo, J Han, XY Yang, K Cao, K He, G Du, G Zeng, L Zhang, **G Yu**, Z Sun, QY He^{*}, X Sun^{*}. **Proteomic analysis on the copper resistance of** *Streptococcus pneumonia. Metallomics*. 2015, 7(3):448-454.

- 17. XY Yang, L Zhang, J Liu, N Li, **G Yu**, K Cao, J Han, G Zeng, Y Pan, X Sun^{*}, QY He^{*}. **Proteomic** analysis on the antibacterial activity of a Ru(II) complex against *Strepococcus pneumonia*. *Journal of Proteomics*. 2015, 115:107-116.
- 18. N Wang[†], J Zhang[†], L Zhang, XY Yang, N Li, **G Yu**, J Han, K Cao, Z Guo, X Sun^{*}, QY He^{*}. **Proteomic analysis of putative heme-binding proteins in** *Streptococcus pyogenes*. *Metallomics*. 2014, 6(8):1451-1459.
- 19. H Sun*, J Weng, G Yu, RH Massawe. A DNA-Based Semantic Fusion Model for Remote Sensing Data. *PLoS One*. 2013, 8(10):e77090.
- 20. GR Yan[†], Z Tan[†], Y Wang, ML Xu, **G Yu**, Y Li^{*}, QY He^{*}. **Quantitative Proteomics Characterization on the Anti-tumor Effects of Isodexyelephantopin against Nasopharyngeal Carcinoma.** *Proteomics***. 2013, 13(21):3222-3232.**
- 21. J Li, X Lu, Q Wu, G Yu, Z Xu, L Qiu, Z Pei, Y Lin, J Pang^{*}. Design, SAR, angiogenic activities evaluation and pro-angiogenic mechanism of new marine cyclopeptide analogs. *Current Medicinal Chemistry*. 2013, 20(9):1183-1194.
- 22. Y Han, **G Yu**, H Sarioglu, A Caballero-Martinez, F Schlott, M Ueffing, H Haase, C Peschel, AM Krackhardt^{*}. **Proteomic investigation of the interactome of FMNL1 in hematopoietic cells unveils a role in calcium-dependent membrane plasticity**. *Journal of Proteomics*. 2013, 78:72-82.
- 23. Y Ma[†], J Yang[†], X Fan[†], H Zhao, W Hu, Z Li, **G Yu**, X Ding, J Wang, X Bo, X Zheng, Z Zhou^{*}, S Wang^{*}. Cellular MicroRNA let-7c Inhibits M1 Protein Expression of the H1N1 Influenza A Virus in Infected Human Lung Epithelial Cells. *Journal of Cellular and Molecular Medicine*. 2012, 16(10):2539-2546.
- 24. GR Yan[†], FY Zhou[†], BL Dang, Y Zhang, **G Yu**, X Liu, QY He^{*}. **Genistein-induced mitotic arrest of gastric cancer cells by downregulating KIF20A**, a proteomics study. *Proteomics*. 2012, 12(14):2391-2399.
- 25. X Sun[†], XY Yang[†], XF Yin, **G Yu**, CL Xiao, X He, QY He^{*}. **Proteomic Analysis of Membrane**Proteins from *Streptococcus pneumoniae* with Multiple Separation Methods plus High Accuracy Mass Spectrometry. *OMICS: A Journal of Integrative Biology*. 2011, 15(10):683-694.

Book Chapters

G Yu, "Bioinformatics II", in "Functional Protein Research", 385-425, Qing-Yu He (Eds), Science Press, 2012. (China's Twelfth Five-Year National Important Books Project, in Chinese)