GUANGCHUANG YU

Professor of Bioinformatics at Southern Medical University. I have developed more than 20 R packages, including clusterProfiler, ChIPseeker, treeio and ggtree.

I am broadly interested in bioinformatics, metagenomics, molecular evolution, data integration and visualization.

· Thesis: Big-data computational methods for studying molecular

evolution: from accurate genome assembly to phylogenetic analysis and



EDUCATION

南方医科大学高层次人才"不忘初心 牢记使命"学习教育

延安干部培训学院

Yan'an, CN

2017 2013

2018

PhD.. Bioinformaitcs

The University of Hong Kong

Hong Kong, CN

data integration

Train the Trainers

Institut Pasteur

Paris, FR

2009 2006

2015

M.S., Biochemistry and Molecular Biology

Anhui Medical University

PHefei, CN

·Thesis: miRNA靶基因计算分析新方法及其应用研究

2005 2001

2015

B.S., Biotechnology

Southern Medical University

Q Guangzhou, CN



E CERTIFICATE

Certificate of Teaching and Learning in Higher Education

Centre for Enhancement of Teaching and Learning

The University of Hong Kong



RESEARCH EXPERIENCE

2026

2018

2017

Professor

School of Basic Medical Sciences

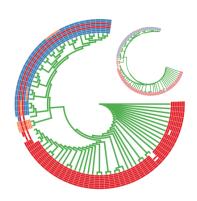
Southern Medical University

· Associate director of Institute of Bioinformatics

Post-doctoral Fellow 2018

State Key Laboratory of Infectious Diseases

♦ The University of Hong Kong



CONTACT

- guangchuangyu@gmail.com
- y guangchuangyu
- github.com/GuangchuangYu
- guangchuangyu.github.io
- **%** biobabble
- **J** (86) 13826432521

SKILLS

Highly experienced in

- · ggplot2

Experience with

- · Linux
- · Bash
- · C++

·JAVA





= PUBLICATIONS

2018

Two methods for mapping and visualizing associated data on phylogeny using ggtree

Molecular Biology and Evolution. 2018, 35(12):3041-3043.

- · G Yu*, TTY Lam, H Zhu, Y Guan*
- · Impact Factor = 14.797

2018

Using meshes for MeSH term enrichment and semantic analyses Bioinformatics. 2018, 34(21):3766-3767.

· G Yu

2017

ggtree: an R package for visualization and annotation of phylogenetic trees with their covariates and other associated data

Methods in Ecology and Evolution. 2017, 8(1):28-36

- \cdot **G Yu**, DK Smith, H Zhu, Y Guan, TTY Lam *
- · ₹ ESI Highly Cited Paper

2016

ReactomePA: an R/Bioconductor package for reactome pathway analysis and visualization

Molecular BioSystems. 2016, 12(2):477-479

- · G Yu. OY He*
- · ₹ ESI Highly Cited Paper

2016

Integrated Translatomics with Proteomics to Identify Novel Iron-Transporting Proteins in Streptococcus pneumoniae

Frontiers in Microbiology. 2016, 7:78

· XY Yang, K He, G Du, X Wu, **G Yu**, Y Pan, G Zhang*, X Sun*, QY He*

2016

Genetic characterization of highly pathogenic H₅ influenza viruses from poultry in Taiwan, 2015

Infection, Genetics and Evolution. 2016, 38:96-100

• PY Huang, CCD Lee, CH Yip, CL Cheung, **G Yu**, TTY Lam, DK Smith, H Zhu*, Y Guan*

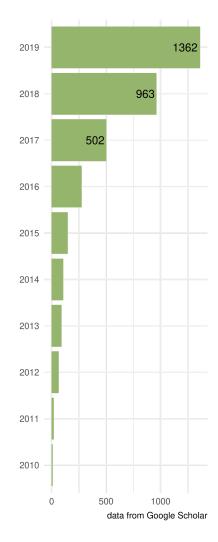
2015

ChIPseeker: an R/Bioconductor package for ChIP peak annotation, comparision and visualization

Bioinformatics. 2015, 31(14):2382-2383

- · **G Yu***, LG Wang, QY He*
- · ₹ ESI Highly Cited Paper

- Citation = 3598
- · H-index = 16
- \cdot I10-index = 22



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2015	DOSE: an R/Bioconductor package for Disease Ontology Semantic and Enrichment analysis
	Bioinformatics . 2015, 31(4):608-609
	\cdot G Yu * , LG Wang, GR Yan, QY He *
2015	ACK1 Promotes Gastric Cancer Epithelial-Mesenchymal Transition and Metastasis through AKT-POU2F1-ECD Signaling
	Journal of Pathology. 2015, 236(2):175-185 SH Xu, JZ Huang, ML Xu, G Yu, XF Yin, D Chen*, GR Yan*
2015	Proteomic analysis on the copper resistance of <i>Streptococcus</i> pneumonia
	Metallomics . 2015, 7(3):448-454
	· Z Guo, J Han, XY Yang, K Cao, K He, G Du, G Zeng, L Zhang, G Yu , Z Sun, QY He [*] , X Sun [*]
2015	Proteomic analysis on the antibacterial activity of a Ru(II) complex against <i>Strepococcus pneumonia</i> Journal of Proteomics. 2015, 115:107-116
	· XY Yang, L Zhang, J Liu, N Li, G Yu , K Cao, J Han, G Zeng, Y Pan, X Sun [*] , QY He [*]
2014	Proteomic analysis of putative heme-binding proteins in <i>Streptococcus pyogenes Metallomics</i> . 2014, 6(8):1451-1459
	N Wang [#] , J Zhang [#] , L Zhang, XY Yang, N Li, G Yu , J Han, K Cao, Z Guo, X Sun [*] , QY He [*]
2013	Putative cobalt- and nickel-binding proteins and motifs in Streptococcus pneumonia
	Metallomics . 2013, 5(7):928-935
	\cdot X Sun#, $f G$ $f Yu$ #, Q Xu, N Li, C Xiao, X Yin, K Cao, J Han, QY He *
2013	A novel andrographolide derivative AL-1 exerts its cytotoxicity on K562 cells through a ROS-dependent mechanism Proteomics, 2013, 13(1):169-178
	· YY Zhu#, \mathbf{G} \mathbf{Y} \mathbf{u} #, Y Zhang, Z Xu, YQ Huang, GR Yan*, QY He*
2013	A DNA-Based Semantic Fusion Model for Remote Sensing Data <i>PLoS One</i> . 2013, 8(10):e77090
ı	· H Sun [*] , J Weng, G Yu , RH Massawe

Quantitative Proteomics Characterization on the Anti-tumor Effects of 2013 Isodexyelephantopin against Nasopharyngeal Carcinoma Proteomics. 2013, 13(21):3222-3232 · GR Yan*. Z Tan*. Y Wang, ML Xu, **G Yu**, Y Li*, OY He* Design, SAR, angiogenic activities evaluation and pro-angiogenic 2013 mechanism of new marine cyclopeptide analogs Current Medicinal Chemistry. 2013, 20(9):1183-1194 · J Li. X Lu. O Wu. **G Yu**. Z Xu. L Oiu. Z Pei. Y Lin. J Pana* Proteomic investigation of the interactome of FMNL1 in hematopoietic 2013 cells unveils a role in calcium-dependent membrane plasticity **Journal of Proteomics**. 2013, 78:72-82 · Y Han, **G Yu**, H Sarioglu, A Caballero-Martinez, F Schlott, M Ueffing, H Haase, C Peschel, AM Krackhardt* LXtoo: an integrated live Linux distribution for the bioinformatics 2012 community BMC Research Notes. 2012, 5(1):360 · **G Yu**[#], LG Wang[#], XH Meng, QY He^{*} clusterProfiler: an R package for comparing biological themes among 2012 gene clusters OMICS: A Journal of Integrative Biology. 2012, 16(5):284-287 \cdot **G Yu**, LG Wang, Y Han, QY He * · T ESI Highly Cited Paper Cellular MicroRNA let-7c Inhibits M1 Protein Expression of the H1N1 2012 Influenza A Virus in Infected Human Lung Epithelial Cells Journal of Cellular and Molecular Medicine. 2012, 16(10):2539-2546 · 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* Genistein-induced mitotic arrest of gastric cancer cells by 2012 downregulating KIF20A, a proteomics study Proteomics. 2012, 12(14):2391-2399 · GR Yan*, FY Zhou*, BL Dang, Y Zhang, **G Yu**, X Liu, QY He* Functional similarity analysis of human virus-encoded miRNAs 2011 Journal of Clinical Bioinformatics. 2011, 1(1):15 · G Yu. OY He*

2011	A new method for measuring functional similarity of microRNAs Journal of Integrated OMICS. 2011, 1(1):49-54
	· G Yu #, CL Xiao#, X Bo, CH Lu, Y Qin, S Zhan, QY He*
2011	Phosphoproteome profile of human lung cancer cell line A549 Molecular BioSystems. 2011, 7(2):472-479
	\cdot \mathbf{G} \mathbf{Yu} *, CL Xiao*, CH Lu*, HT Jia, F Ge, W Wang, XF Yin, HL Jia, JX He*, QY He*
2011	Proteomic Analysis of Membrane Proteins from <i>Streptococcus</i> pneumoniae with Multiple Separation Methods plus High Accuracy Mass Spectrometry
	OMICS: A Journal of Integrative Biology. 2011, 15(10):683-694
	\cdot X Sun#, XY Yang#, XF Yin, $oldsymbol{G}$ $oldsymbol{Y}$ $oldsymbol{u}$, CL Xiao, X He, QY He *
2010	GOSemSim: an R package for measuring semantic similarity among GO terms and gene products
	Bioinformatics . 2010, 26(7):976-978
	\cdot G Yu #, F Li#, Y Qin, X Bo * , Y Wu, S Wang *
	· Y ESI Highly Cited Paper
2009	结合基因组分析预测炎症相关miRNA及其靶标
	军事医学科学院院刊 . 2009, 33(3):245-247
	· 余光创 ,王超,许尹,伯晓晨,王升启",秦宜德"
2007	依赖于5°端非编码区高级结构的真核生物mRNA翻译调控 中国生物化学与分子生物学报. 2007, 23(11):881-887
	余光创 ,秦宜德,伯晓晨,王升启*
:0	* CONFERENCE PROCEEDINGS
2019	Two methods for mapping and visualizing associated data on phylogeny using ggtree
	第一届南方医科大学基础医学学术年会 ♥ Guangzhou, CN
2018	Data integration and visualization of phylogenetic trees
	The 3 rd South Lake Innovation Forum for International Young Talents • Wuhan, CN
2017	ggtree for tree visualization & annotation Phylogenetic tree visualization workshop/hackathon ◆ Chicago, US
2017	Computational Methods in Ecology and Evolution
2017	The Second International Workshop on Environmental Microbiomes • Guangzhou, CN

The 9th China-R Conference