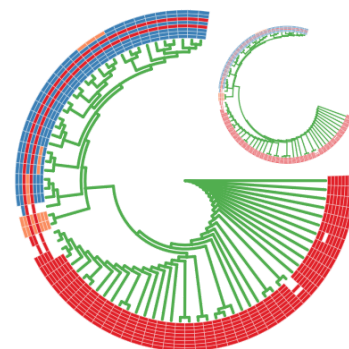


GUANGCHUANG YU

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.



EDUCATION

- 2018
|
2013
- 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
- PhD., Bioinformatics**
The University of Hong Kong
Hong Kong, CN
- Thesis: Big-data computational methods for studying molecular evolution: from accurate genome assembly to phylogenetic analysis and data integration
- 2015
- Train the Trainers**
Institut Pasteur
Paris, FR
- 2009
|
2006
- M.S., Biochemistry and Molecular Biology**
Anhui Medical University
Hefei, CN
- Thesis: miRNA靶基因计算分析新方法及其应用研究
- 2005
|
2001
- B.S., Biotechnology**
Southern Medical University
Guangzhou, CN

CERTIFICATE

- 2015
- Certificate of Teaching and Learning in Higher Education**
Centre for Enhancement of Teaching and Learning
The University of Hong Kong

RESEARCH EXPERIENCE

- 2026
|
2018
- Professor**
School of Basic Medical Sciences
Southern Medical University
- Associate director of Institute of Bioinformatics
- 2018
|
2017
- Post-doctoral Fellow**
State Key Laboratory of Infectious Diseases
The University of Hong Kong

CONTACT

- ✉ guangchuangyu@gmail.com
- 🐦 [guangchuangyu](#)
- 🔗 github.com/GuangchuangYu
- 🔗 guangchuangyu.github.io
- 🗣 biobabble
- 📞 (86) 13826432521

SKILLS

Highly experienced in

- R
- ggplot2

Experience with

- Linux
- Bash
- C++
- JAVA

Last updated on 2019-09-29.

2013
|
2009

Bioinformatician

Key Laboratory of Functional Protein Research of Guangdong Higher Education Institutes

📍 Jinan University



TEACHING EXPERIENCE

2019

BMB209: Workshops in Applied Bioinformatics

Department of Biochemistry and Molecular Biology

📍 University of Southern Denmark

- PhD level class, invited lecture

2019

生物信息学科研训练

School of Basic Medical Sciences

📍 Southern Medical University

- Undergraduate level class

2019

基因组学

School of Basic Medical Sciences

📍 Southern Medical University

- Undergraduate level class

2019

基础医学新进展讲座

School of Basic Medical Sciences

📍 Southern Medical University

- Undergraduate level class

2012
|
2011

功能蛋白质研究

College of Life Science and Technology

📍 Jinan University

- Graduate level class



GRANTS

2020
|
2018

南方医科大学第三层次人才引进科研项目 (G618289088)

PI, CNY ¥1,500,000

2013

hnRNPK蛋白在调控人肺癌细胞周期胞质分裂中的作用研究 (21613414)

PI, CNY ¥100,000

- 中央高校基本科研业务费专项资金

2011

Hela细胞周期动态蛋白质组学分析 (21611303)

PI, CNY ¥20,000

- 中央高校基本科研业务费专项资金



BOOKS

2012

生物信息学II

《功能蛋白质研究》. 385-425. 何庆瑜（主编），科学出版社

· 余光创

· “十二五”国家重点图书出版规划项目



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

· Citation = 3598

· H-index = 16

· I10-index = 22

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

· 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, QY 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

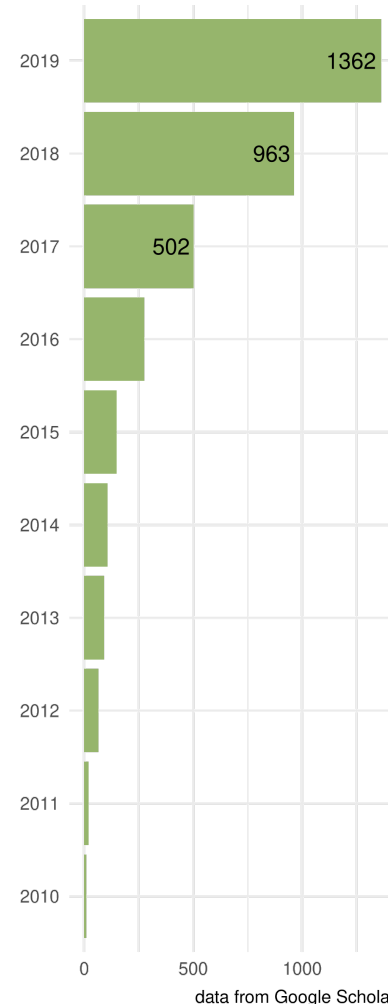
· XY Yang, K He, G Du, X Wu, G Yu, Y Pan, G Zhang*, X Sun*, QY He*

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, comparison and visualization](#)
Bioinformatics. 2015, 31(14):2382-2383
• **G Yu**^{*}, LG Wang, QY He^{*}
• 🏆 ESI Highly Cited Paper
- 2015 [DOSE: an R/Bioconductor package for Disease Ontology Semantic and Enrichment analysis](#)
Bioinformatics. 2015, 31(4):608-609
• **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 *Streptococcus 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 *Streptococcus pneumonia*](#)
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 *Streptococcus pyogenes*](#)
Metallomics. 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
• X Sun[#], **G 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[#], **G Yu**[#], Y Zhang, Z Xu, YQ Huang, GR Yan^{*}, QY He^{*}

- 2013 [A DNA-Based Semantic Fusion Model for Remote Sensing Data](#)
PLoS One. 2013, 8(10):e77090
• H Sun^{*}, J Weng, **G Yu**, RH Massawe
- 2013 [Quantitative Proteomics Characterization on the Anti-tumor Effects of Isodexylephantopin against Nasopharyngeal Carcinoma](#)
Proteomics. 2013, 13(21):3222-3232
• GR Yan[#], Z Tan[#], Y Wang, ML Xu, **G Yu**, Y Li^{*}, QY He^{*}
- 2013 [Design, SAR, angiogenic activities evaluation and pro-angiogenic mechanism of new marine cyclopeptide analogs](#)
Current Medicinal Chemistry. 2013, 20(9):1183-1194
• J Li, X Lu, Q Wu, **G Yu**, Z Xu, L Qiu, Z Pei, Y Lin, J Pang^{*}
- 2013 [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
• Y Han, **G Yu**, H Sarioglu, A Caballero-Martinez, F Schlott, M Ueffing, H Haase, C Peschel, AM Krackhardt^{*}
- 2012 [LXtoo: an integrated live Linux distribution for the bioinformatics community](#)
BMC Research Notes. 2012, 5(1):360
• **G Yu**[#], LG Wang[#], XH Meng, QY He^{*}
- 2012 [clusterProfiler: an R package for comparing biological themes among gene clusters](#)
OMICS: A Journal of Integrative Biology. 2012, 16(5):284-287
• **G Yu**, LG Wang, Y Han, QY He^{*}
• 🏆 ESI Highly Cited Paper
- 2012 [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
• 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^{*}
- 2012 [Genistein-induced mitotic arrest of gastric cancer cells by 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^{*}

- 2011 [Functional similarity analysis of human virus-encoded miRNAs](#)
Journal of Clinical Bioinformatics. 2011, 1(1):15
· G Yu, QY 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
· G 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 *Streptococcus pneumoniae* with Multiple Separation Methods plus High Accuracy Mass Spectrometry](#)
OMICS: A Journal of Integrative Biology. 2011, 15(10):683-694
· X Sun#, XY Yang#, XF Yin, G Yu, 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
· G Yu#, F Li#, Y Qin, X Bo*, Y Wu, S Wang*
· 🏆 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*

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 3rd 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**
The Second International Workshop on Environmental Microbiomes
 Guangzhou, CN
- 2016 **ggtree for visualization and annotation of phylogenetic trees**
The 9th China-R Conference  Beijing, CN