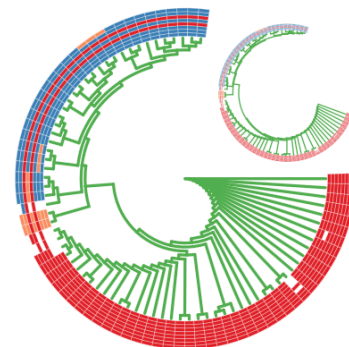


GUANGCHUANG YU

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

- 2017
|
2013
- 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
- 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
- 2018
- 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
- 2015
- Train the Trainers**
Institut Pasteur 📍 Paris, FR



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

生物信息学科研训练

School of Basic Medical Sciences

📍 Southern Medical University

• Undergraduate level class

基因组学

School of Basic Medical Sciences

📍 Southern Medical University

• Undergraduate level class

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 (“十二五”国家重点图书出版规划项目)

• 余光创



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

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

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*

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

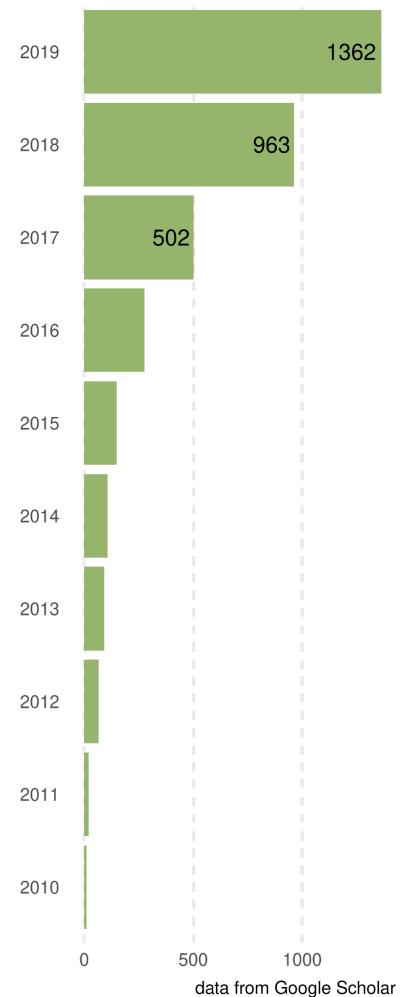
- G Yu*, LG Wang, QY He*
- 🏆 ESI Highly Cited Paper

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*

- Citation = 3598
- H-index = 16
- I10-index = 22



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*

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*

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*

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*

A DNA-Based Semantic Fusion Model for Remote Sensing Data

PLoS One. 2013, 8(10):e77090

• H Sun*, J Weng, G Yu, RH Massawe

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*

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*

2012

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*

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*

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

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*

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*

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*

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*

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
- 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