# **GUANGCHUANG YU**

Professor of Bioinformatics at Southern Medical University. I have developed more than 20 R packages, including clusterProfiler, ChIPseeker, treeio and ggtree, to help biologists to explore and understand their data.

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

#### RESEARCH EXPERIENCE **Professor** present Southern Medical University School of Basic Medical Sciences 2018 · 2019-present, Associate director, Department of Bioinformatics Post-doctoral Fellow 2018 State Key Laboratory of Infectious Diseases 2017 The University of Hong Kong **Bioinformatician** 2013 Key Laboratory of Functional Protein Research of Guangdong 2009 **Higher Education Institutes ♀**Jinan University **EDUCATION** PhD., Bioinformaitcs 2017 O Hong Kong, CN The University of Hong Kong 2013 · Thesis: Big-data computational methods for studying molecular evolution: from accurate genome assembly to phylogenetic analysis and data integration 2009 M.S., Biochemistry and Molecular Biology • Hefei, CN Anhui Medical University 2006 ·Thesis: miRNA靶基因计算分析新方法及其应用研究 B.S., Biotechnology 2005 **Q** Guangzhou, CN South China Agricultural University 2001 南方医科大学高层次人才"不忘初心 牢记使命"学习教育 2018 Yan'an, CN 延安干部培训学院 Train the Trainers 2015 Paris, FR Institut Pasteur



## CONTACT

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# SELECTED R PACKAGES

#### NGS

· ChIPseeker

#### Ontology

- clusterProfiler
- · DOSE
- enrichplot
- · GOSemSim

### Phylogeny

- tidytree
- · treeio
- · ggtree

#### Visualization

- ggimage
- ggplotify
- seqcombo

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**BOOKS** 

2011

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



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- · Impact Factor = 14.797

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· G Yu

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- $\cdot$  H-index = 17
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·J Li, X Lu, Q Wu, G Yu, Z Xu, L Qiu, Z Pei, Y Lin, J Pang\*

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Journal of Cellular and Molecular Medicine. 2012, 16(10):2539-2546

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- Genistein-induced mitotic arrest of gastric cancer cells by downregulating KIF2oA, a proteomics study

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GOSemSim: an R package for measuring semantic similarity among GO terms and gene products

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## **CONFERENCE PROCEEDINGS**

■ R语言在生物信息学数据可视化中的应用

第八届南方医院博士论坛 - 研而有信之修"生"养"信", Oct 2019

Southern Medical University

Data integration and visualization of phylogenetic trees

• 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, Jan 2019

Southern Medical University

2018 • Data integration and visualization of phylogenetic trees

The  $3^{rd}$  South Lake Innovation Forum for International Young Talents, May 2018

**♀** Huazhong Agricultural University

ggtree for tree visualization & annotation

Phylogenetic tree visualization workshop/hackathon, May 2017

• The Field Museum of Natural History

Computational Methods in Ecology and Evolution

The Second International Workshop on Environmental Microbiomes, Apr 2017

Sun Yat-sen University

The 9<sup>th</sup> China-R Conference, May 2016