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 Associate director of Institute 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



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SELECTED R PACKAGES

NGS

· ChIPseeker

Ontology

- clusterProfiler
- · DOSE
- enrichplot
- · GOSemSim

Phylogeny

- · treeio
- $\cdot \ tidytree$
- ggtree

Visualization

- · gaplotify
- ggimage
- 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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2011

GOSemSim: an R package for measuring semantic similarity among GO 2010 terms and gene products Bioinformatics. 2010, 26(7):976-978 · G Yu[#], F Li[#], Y Qin, X Bo^{*}, Y Wu, S Wang^{*} · **T** ESI Highly Cited Paper 结合基因组分析预测炎症相关miRNA及其靶标 2009 **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* 依赖于5端非编码区高级结构的真核生物mRNA翻译调控 2007 **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** Two methods for mapping and visualizing associated data on phylogeny 2019 using ggtree **♀** Guangzhou, CN 第一届南方医科大学基础医学学术年会 Data integration and visualization of phylogenetic trees 2018 The 3rd South Lake Innovation Forum for International Young Talents **♀** Wuhan, CN ggtree for tree visualization & annotation 2017 **♀** Chicago, US Phylogenetic tree visualization workshop/hackathon Computational Methods in Ecology and Evolution The Second International Workshop on Environmental Microbiomes **♀** Guangzhou, CN ggtree for visualization and annotation of phylogenetic trees 2016 Paeijing, CN The 9th China-R Conference