

Jacob Steenwyk

Graduate Student
Biological Sciences
Vanderbilt University
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Education

Present	Graduate Student Biological Sciences Advisor: Antonis Rokas Current GPA: 3.95	Vanderbilt University
2016	M.S. Biochemistry and Molecular Biology Advisor: John G. Gibbons GPA: 3.98	Clark University
2015	B.A. Biochemistry and Molecular Biology Advisor: Denis Larochelle Cumulative GPA: 3.84 & Science GPA: 3.84	Clark University

Awards

2017	Graduate Student Travel Grant, Vanderbilt University
2016	Graduate Student Council Travel Awards, Clark University
2015	Summa Cum Laude, Clark University
2014	Who's Who Among Students in American Universities & Colleges, Recognition of Merit and Accomplishment
2011	Jonas Clark Scholarship, Clark University

Publications

- Preprint: **Steenwyk J.**, St. Denis J., Dresch J., Larochelle D., Drewell R. (2017) Whole genome bisulfite sequencing reveals a sparse, but robust pattern of DNA methylation in the *Dictyostelium discoideum* genome. bioRxiv. doi: 10.1101/166033
- (2) **Steenwyk J.**, Rokas A. (2017). Extensive Copy Number Variation in Fermentation-Related Genes among *Saccharomyces cerevisiae* Wine Strains. G3: Genes|Genomes|Genetics. doi: 10.1534/g3.117.040105
- (1) **Steenwyk J.L.**, Soghigian J.S., Perfect J.R. and Gibbons J.G. (2016). Copy number variation contributes to cryptic genetic variation in outbreak lineages of *Cryptococcus gattii* from the North American Pacific Northwest. BMC Genomics. doi: 10.1186/s12864-016-3044-0

Contributed Talks

2017	Mycological Society of America, Univ. of Georgia, Athens, GA Extensive Copy Number Variation in Fermentation-Related Genes Among <i>Saccharomyces cerevisiae</i> Wine Strains
2016	Mycological Society of America, Univ. of California Berkeley, Berkeley, CA

	Population structure and copy number variation in the fungal pathogen <i>Cryptococcus gattii</i>
2016	Graduate Student Multidisciplinary Conference, Clark University, Worcester, MA
	Population structure and copy number variation in the fungal pathogen <i>Cryptococcus gattii</i>
2015	TedXClarkUniversity, Clark University, Worcester, MA Instinct and Intelligence

Poster Presentations

2015	Bumpus Symposium, Clark University, Worcester, MA Population structure and copy number variation in the fungal pathogen <i>Cryptococcus gattii</i>
2015	Traina Scholars Presentation, Clark University, Worcester, MA <i>Mapping the Auto-Immune Triggering Epitope of ELAVL4</i>
2015	Summer Research Presentation, Clark University, Worcester, MA <i>Mapping the Auto-Immune Triggering Epitope of ELAVL4</i>

Research Experience

Current	Antonis Rokas Lab at Vanderbilt University, Nashville, TN.
2015-16	John Gibbons Lab at Clark University, Worcester, MA. Investigation of copy number variation in the human pathogen, <i>Cryptococcus gattii</i> .
2015-16	Robert Drewell Lab at Clark University, Worcester, MA. Investigation of genome-wide methylation patterns in <i>Dictyostelium discoideum</i> .
2014	Ite A. Laird-Offringa Lab at University of Southern California, Los Angeles, CA. Bridging the Gaps Summer Scholar. Project aim was to map the autoimmune triggering epitope of <i>ELAVL4</i> in small cell lung cancer.
2013	John Heidelberg and Eric Webb Labs at University of Southern California, Los Angeles, CA. Global Environmental Microbiology Summer Scholar. Investigation of fresh and marine water microbial diversity.

Teaching Assistant Experience and Service

2017-18	Teaching Assistant, Introductory Biology Lab, Vanderbilt University, Nashville, TN
2017	Judge, Middle Tennessee Science and Engineering Fair, Belmont University, Nashville, TN
2017	Vanderbilt Student Volunteers for Science, Volunteer Science Teacher, West End Middle School, Nashville, TN
2017	Manuscript Reviewer, Young Scientist Journal
2016	Introduction to Biostatistics, Teaching Assistant, Clark University, Worcester, MA.
2015-16	Peer Review Committee Member, Scholarly Undergraduate Research Journal, Clark University, Worcester, MA.

- 2015** Science Education Outreach Blogger, C-DEBI Sci-Curious Blog.
- 2014-15** Cell Biology, Peer Learning Assistant, Clark University, Worcester, MA.
- 2014-15** Undergraduate Subcommittee for Department of Chemistry, Biochemistry and Molecular Biology Faculty Search Committee, Clark University, Worcester, MA.
- 2014** Peer Review Committee Member, Scholarly Undergraduate Research Journal, Clark University, Worcester, MA.
- 2014** Science Education Outreach Blogger, C-DEBI Sci-Curious Blog.