Jacob Steenwyk

Graduate Student Evolutionary genomics Dept. Biological Sciences, Vanderbilt University

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Education

Graduate Student Biological Sciences	Vanderbilt University
Advisor: Antonis Rokas	
Current GPA: 3.97	
M.S. Biochemistry and Molecular Biology	Clark University
Advisor: John G. Gibbons	•
GPA: 3.98	
B.A. Biochemistry and Molecular Biology	Clark University
Advisor: Denis Larochelle	•
Cumulative GPA: 3.84	
Science GPA: 3.84	
	Advisor: Antonis Rokas Current GPA: 3.97 M.S. Biochemistry and Molecular Biology Advisor: John G. Gibbons GPA: 3.98 B.A. Biochemistry and Molecular Biology Advisor: Denis Larochelle Cumulative GPA: 3.84

Awards

2017	Graduate student travel grant, Vanderbilt University
2016	Graduate student council travel awards, Clark University
2015	Summa cum laude, Clark University
2014	Summer research scholar, Bridging the gaps, University of Southern California Keck School of Medicine
2013	Global environmental microbiology scholar, Center for dark energy biosphere investigations, University of Southern California
2011	Jonas Clark Scholar, 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 <i>Dictyostelium discoideum</i> genome. bioRxiv. doi:
	10.1101/166033
(3)	Steenwyk J., Rokas A. (2018). Copy number variation in fungi and its
	implications for wine yeast genetic diversity and adaptation. Frontiers in
	Microbiology. doi: https://doi.org/10.3389/fmicb.2018.00288
(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

	Extensive Copy Number Variation in Fermentation-Related Genes Among
	Saccharomyces cerevisiae Wine Strains
2016	Mycological Society of America, Univ. of California Berkeley, Berkeley,
	CA
	Population structure and copy number variation in the fungal pathogen
2016	Cryptococcus gattii Creducte Student Multidisainlinens Conference Clark University
2010	Graduate Student Multidisciplinary Conference, Clark University, Worcester, MA
	Population structure and copy number variation in the fungal pathogen
	Cryptococcus gattii
2015	TedXClarkUniversity, Clark University, Worcester, MA
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Poster Pres	sentations
2015	Bumpus Symposium, Clark University, Worcester, MA
	Population structure and copy number variation in the fungal pathogen
	Cryptococcus gattii
2015	Traina Scholars Presentation, Clark University, Worcester, MA
2015	Mapping the Auto-Immune Triggering Epitope of ELAVL4
2015	Summer Research Presentation, Clark University, Worcester, MA
	Mapping the Auto-Immune Triggering Epitope of ELAVL4
Research E	xnerience
2016-Pres.	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 Dictyostelium discoideum.
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
2012	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.
	investigation of fresh and marme water interoblar diversity.
Teaching E	xperience
	Teaching Assistant, Introductory Biology Lab, Vanderbilt University,
	Nashville, TN
2016	Introduction to Biostatistics, Teaching Assistant, Clark University,
	Worcester, MA
2014-2015	Cell Biology, Teaching Assistant, Clark University, Worcester, MA
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Service	
2017-Pres.	, 1
	Vanderbilt University, Nashville, TN

2017-Pres.	Secretary, Graduate Student Association, Department of Biological
	Sciences, Vanderbilt University, Nashville, TN
2017-Pres.	Member, Graduate Diversity and Inclusion Committee, Vanderbilt
	University, Nashville, TN
2017-Pres.	Vanderbilt Student Volunteers for Science, Volunteer Science Teacher,
	West End Middle School, Nashville, TN
2017-Pres.	Scientific consultant, Little Harpeth Brewing, Nashville, TN
2017	Educational outreach booth design and execution, MEGAMicrobe,
	Nashville, TN
2017	Judge, Middle Tennessee Science and Engineering Fair, Belmont
	University, Nashville, TN
2014-15	Undergraduate Subcommittee for Department of Chemistry, Biochemistry
	and Molecular Biology Faculty Search Committee, Clark University,
	Worcester, MA
2014-15	Science Education Outreach Blogger, C-DEBI Sci-Curious Blog

Manuscript reviewer

BMC Genomics, Public Library of Sciences (PLoS) One, Young Scientists Journal, Scholarly Undergraduate Research Journal