

Jacob L. Steenwyk

Berkeley Science Fellow & Howard Hughes Medical Institute Awardee of the Life Sciences Research Foundation. Howard Hughes Medical Institute and University of California, Berkeley. jlsteenwyk@berkeley.edu www.jlsteenwyk.com

PROFESSIONAL POSITIONS

Since 2023 Howard Hughes Medical Institute Awardee, Life Sciences Research Foundation

Since 2022 Postdoctoral Associate, Laboratory of Dr. King, University of California, Berkeley

Since 2022 Berkeley Science Fellow, University of California, Berkeley

FIVE HIGHLIGHTED PUBLICATIONS (Trainees and I are in **bold** font.)

- 1. **Steenwyk, J.L.**, Y. Li, X. Zhou, X.-X. Shen, & A. Rokas (2023). Incongruence in the phylogenomics era. *Nature Reviews Genetics*. DOI: 10.1038/s41576-023-00620-x
- Steenwyk, J.L., M.A. Phillips, F. Yang, S.S. Date, T. Graham, J. Berman, C.T. Hittinger, & A. Rokas (2022). An orthologous gene coevolution network provides insight into eukaryotic cellular and genomic structure and function. *Science Advances*. DOI: 10.1126/sciadv.abn0105
- 3. **Steenwyk, J.L.**^, T.J. Buida III, A.L. LaBella, Y. Li, X.-X. Shen, & A. Rokas^ (2021). PhyKIT: a UNIX shell toolkit for processing and analyzing phylogenomic data. ^Corresponding authors. *Bioinformatics*. DOI: 10.1093/bioinformatics/btab096
- Steenwyk, J.L.[^], T.J. Buida III, Y. Li, X.-X. Shen, & A. Rokas[^] (2020). ClipKIT: a multiple sequence alignment-trimming software for accurate phylogenomic inference.
 ^Corresponding authors. *PLOS Biology*. DOI: 10.1371/journal.pbio.3001007
- Steenwyk, J.L.*, A.L. Lind*, L.N.A. Ries, T.F. dos Reis, L.P. Silva, F. Almeida, R.W. Bastos, T.F. de Campos Fraga da Silva, V.L.D. Bonato, A.M. Pessoni, F. Rodrigues, H.A. Raja, S.L. Knowles, N.H. Oberlies, K. Lagrou, G.H. Goldman^, A. Rokas^ (2020). Pathogenic allodiploid hybrids of *Aspergillus* fungi. *Equal contributors; *Corresponding authors. *Current Biology*. DOI: 10.1016/j.cub.2020.04.071

AWARDS

Howard Hughes Medical Institute Awardee, Life Sciences Research Foundation
Fifty 50 Community Fellow, Fifty Years Industries, LLC
Berkeley Science Fellow, Berkeley Postdoctoral Entrepreneurship Program, University of California, Berkeley
Graduate Student Excellence Award Finalist, Society for Molecular Biology and Evolution
Hanna H. Gray Fellows Finalist, Howard Hughes Medical Institute
Edward Ferguson Jr. Graduate Award, Graduate School, Vanderbilt University James F. Crow Early Career Researcher Award Finalist, Genetics Society of America
Harold M. Weintraub Graduate Student Award, Fred Hutchinson Cancer Research Center
Sandler Fellows Finalist, University of California, San Francisco Honorable mention, Next Generation Faculty Symposium, Stanford.Berkeley.UCSF

2021	Presentation award, Canadian Fungal Research Network and Great Lakes Mycology Conference
2021 2021 2021	Graduate Research Excellence Award in Biological Sciences, Vanderbilt University Smriti Bardhan Scholarship, Vanderbilt University Registration award, Science Talk '21
2020 2020	Favorite Artist Award, Catalyst: A Virtual Sci-Art Exhibition Oral presentation award, SACNAS – The National Diversity in STEM Virtual Conference
2020	Registration scholarship, SACNAS – The National Diversity in STEM Virtual Conference
2020 2020 2019 2019	Best Talk Honorable Mention, Canadian Fungal Research Network Meeting Trainee-of-the-Year, Vanderbilt Institute for Infection, Immunology and Inflammation Gilliam Predoctoral Fellowship, Howard Hughes Medical Institute Ann Bernard Martin Award for Excellence in Graduate Research, Vanderbilt
	University
2019 2019 2019	Ruth L. Kirschstein National Research Service Award, National Institutes of Health Ford Foundation Predoctoral Fellowship, Ford Foundation Graduate student travel grant, Vanderbilt University
2019 2018	Curb Center Fellow, ArtLab, Vanderbilt University GENETICS Peer Review Training Program, Genetics Society of America
2018	Best poster award, Cellular and Molecular Fungal Biology, Gordon Research Seminar
2018	Best poster award, Cellular and Molecular Fungal Biology, Gordon Research Conference
2018 2018	Best poster award, Department of Biological Sciences, Vanderbilt University T-shirt design contest winner, Department of Biological Sciences, Vanderbilt University
2017 2016 2015	Graduate student travel grant, Vanderbilt University Graduate student council travel awards, Clark University Summa cum laude, Clark University
2014	Bridging the gaps scholar, 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

FUNDING

Life Sciences Research Foundation	Principal investigator, 08/23-08/26, Investigating the molecular underpinnings of complex traits like multicellularity, \$231,000. Funding generously provided by the Howard Hughes Medical Institute.
Howard Hughes Medical Institute	Principal investigator, 09/22, The evolution of pathways responsible for genome integrity in early animals and close relatives, Hanna H. Gray Finalist, \$10,000
Howard Hughes Medical Institute	Principal investigator, 09/19-09/22, Examining the loss of diverse DNA repair genes and long-term hypermutation in a lineage of budding yeasts, Gilliam Fellowship, Individual Predoctoral Fellowship, \$150,000
National Institutes	Principal investigator, 08/19-08/22, Examining the loss of diverse DNA repair genes and long-term hypermutation in a lineage of budding yeasts,

of Health Ruth L. Kirschstein National Research Service Award, Individual

Predoctoral Fellowship (Parent F31), \$88,128 (declined)

Ford Foundation Predoctoral

Principal investigator, 08/19-08/22, The consequences of aberrant cell cycle and DNA repair processes in budding yeast, Individual Predoctoral

Fellow Fellowship, \$72,000 (declined)

Curb Center ArtLab Fellow

Principal investigator, 12/18-04/19, Bridging the gap between artist and

scientist, ArtLab, Vanderbilt University, \$300

SOFTWARE

1) ClipKIT: a multiple sequence alignment-trimming software for accurate phylogenomic inference. Publication PDF; Documentation; Source code

- 2) PhyKIT: a UNIX shell toolkit for processing and analyzing phylogenomic data. <u>Publication PDF</u>; <u>Documentation</u>; <u>Source code</u>
- 3) BioKIT: a versatile toolkit for processing and analyzing diverse types of sequence data. <u>Publication PDF</u>; <u>Documentation</u>; <u>Source code</u>
- 4) OrthoSNAP: a tree splitting and pruning algorithm for retrieving single-copy orthologs from gene family trees. <u>Publication PDF</u>; <u>Documentation</u>; <u>Source code</u>
- 5) orthofisher: a broadly applicable tool for automated gene identification and retrieval. Publication PDF; Documentation; Source code
- 6) LVBRS: a cloud-based suite of workflows for bulk RNA-seq quality control, analysis, and functional enrichment. <u>Publication PDF</u>; <u>Documentation</u>; <u>Source code</u>
- 7) treehouse: a user-friendly application to obtain subtrees from large phylogenies. Publication PDF; Documentation & source code
- 8) ggpubfigs: an R package for creating colorblind friendly figures with ggplot2. <u>Publication PDF</u>; <u>Documentation & source code</u>

INVITED TALKS

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2023	Seminar, Stowers Institute
2023	Innovative Genomics Institute and the Department of Electrical Engineering and
	Computer Sciences, University of California, Berkeley
2023	CanFunNet, Acadia University
2023	Lightening Talk, Southern California Systems Biology Conference, University of
	Southern California
2023	Departmental Seminar, Plant Pathology and Environmental Microbiology, The
	Pennsylvania State University
2022	Biology Department, Loras College
2022	Yeast Genetics Meeting, Genetics Society of America
2022	Hanna H. Gray Fellows Finalists Meeting, Howard Hughes Medical Institute
2022	Molecular mycology meeting, Technion - Israel Institute of Technology
2022	Evolution, Am. Soc. of Naturalists, Soc. for the Study of Evo., and the Soc. of Sys.
	Biologists, Cleveland, OH (declined due to scheduling conflict)
2022	James F. Crow Early Career Researcher Award Finalist, Genetics Society of
	America
2022	Department of Biological Sciences, George Washington University
2022	31st Fungal Genetics Conference at Asilomar, Pacific Grove, CA

2021	Artist-in-Residence program, Vanderbilt Institute for Infection, Immunology and Inflammation
2021	CanFunNet and Great Lakes Mycology Conference
2021	Sandler Fellows Finalists Seminar, University of California, San Francisco
2021	Department of Ecology, Evolution, and Organismal Biology, Iowa State University
2021	Medical Mycology Trainee Seminar Series, University of Utah (Link)
2021	Mycology Graduate Student Organization, University of Georgia
2021	MicroSeminar, International Society for Microbial Ecology (Link)
2021	Alliance for Diversity in Science and Engineering, Young Researchers Conference
2021	Andrew Murray Lab seminar, Harvard University, Cambridge
2020	Institute of Insect Sciences, Zhejiang University
2020	Evan Eichler Lab seminar, University of Washington, Seattle
2020	Genetics Society of America, Early Career Scientist Seminar Series
2020	Nicole King Lab seminar, University of California Berkeley
2020	The National Diversity in STEM Conference, SACNAS
2020	Canadian Fungal Research Network Meeting
2020	Trainee-of-the-year talk, Vanderbilt Institute for Infection, Immunology and Inflammation
2020	Day of Wond'ry, Vanderbilt University, Nashville, TN
2019	Genetics Society of America, Early Career Scientist Seminar Series
2019	Gordon Research Conference, Molecular Mechanisms in Evolution, Easton, MA
2019	Gordon Research Seminar, Molecular Mechanisms in Evolution, Easton, MA (declined)
2019	Focal Point, ArtLab, Vanderbilt University, Nashville, TN
2019	30th Fungal Genetics Conference at Asilomar, Pacific Grove, CA
2019	Phylogenomics and Evolution Group, North Carolina State University, Raleigh, NC
2018	ArtLab Seminar Series, Vanderbilt University, Nashville, TN
2015	TedXClarkUniversity, Clark University, Worcester, MA

CONTRIBUTED TALKS

2023	Plant and Microbial Biology, Postdoc Seminar Series, University of California,
	Berkeley, Berkeley, CA
2021	Students' Mycology Colloquium, Mycological Society of America
2020	Evolution Seminar Series, Vanderbilt University (Link)
2019	DNA Damage and Response Journal Club, Vanderbilt University, Nashville, TN
2019	Research in Progress Seminar, Vanderbilt University, Nashville, TN
2019	Biological Sciences Annual Retreat, Vanderbilt University, Nashville, TN
2019	Science club at the library, Nashville Public Library, Nashville, TN
2018	Nashville Science Club, Jackalope Brewing Company, Nashville, TN
2017	Mycological Society of America, University of Georgia, Athens, GA
2016	Mycological Society of America, University of California Berkeley, Berkeley, CA
2016	Graduate Student Multidisciplinary Conference, Clark University, Worcester, MA

TRAINEE ADVISING

Graduate Students

2023-Pres. Saelin Bjornson (co-advised with Heroen Verbruggen at the University of Melbourne)

Undergraduates

2023-Pres. Nhoelle Rocero (co-advised with Nicole King at University of California, Berkeley)

2022-Pres. Charu Balamurugan (co-advised with Antonis Rokas at Vanderbilt University)2019-2022 Qianhui (Olivia) Zheng (co-advised with Antonis Rokas at Vanderbilt University)

2018-2021 Megan A. Phillips (co-advised with Antonis Rokas at Vanderbilt University)

COMPANY ADVISING

Since 2023 Advisor, ForensisGroup, Inc., Pasadena, CA
Since 2022 Scientific Advisor, WittGen Biotechnologies, CA
2022-2023 Scientific Consultant, Latch Al Inc., San Francisco, CA
2017-2018 Scientific Consultant, Little Harpeth Brewing, Nashville, TN

WORKSHOP TEACHING

2024	Lead instructor, Workshop on Phylogenomics, Evolution and Genomics, Český
	Krumlov, Czech Republic
2019	Organizer and instructor, Values-based leadership, Vanderbilt University, Nashville,
	TN
2019	Founder and instructor, 'A beginner's guide to making figures in R,' Vanderbilt
	University, Nashville, TN
2019	Instructor, Workshop on Phylogenomics, Evolution and Genomics, Český Krumlov,
	Czech Republic
2019	Instructor, Workshop on Genomics, Evolution and Genomics, Český Krumlov,
	Czech Republic

TEACHING EXPERIENCE

2020	Guest lecture, Science Communication Tools and Techniques, Vanderbilt
	University, Nashville, TN
2017-2019	Teaching Assistant, Introductory Biology Lab, Vanderbilt University, Nashville, TN
2016	Teaching Assistant, Introduction to Biostatistics, Clark University, Worcester, MA
2014-2015	Teaching Assistant, Cell Biology, Clark University, Worcester, MA

The International Choanoflagellates & Friends Workshop

POSTER PRESENTATIONS

2023

2023	The international Choanonagenates & Friends Workshop
2022	Decoding the Genome, Howard Hughes Medical Institute
2021	Gilliam Fellows Meeting, Howard Hughes Medical Institute
2021	Biology of Genomes, Cold Spring Harbor Laboratories
2021	Science Talk '21, Science Talk
2020	Gilliam Fellows Meeting, Howard Hughes Medical Institute
2020	Vanderbilt Institute for Infection, Immunology and Inflammation Annual Symposium,
	Virtual Conference
2020	The Allied Genetics Conference, Virtual Conference
2019	Investigators Science Meeting, Howard Hughes Medical Institute, Bethesda, MD
2019	Gilliam Fellows Annual Meeting, Howard Hughes Medical Institute, Bethesda, MD
2019	Molecular Mechanisms in Evolution, Gordon Research Conference, Easton, MA
2019	Molecular Mechanisms in Evolution, Gordon Research Seminar, Easton, MA
2019	30th Fungal Genetics Conference at Asilomar, Pacific Grove, CA
2019	Asperfest pre-meeting at 30 th Fungal Genetics Conference at Asilomar, Pacific
	Grove, CA
2018	Cellular and Molecular Fungal Biology, Gordon Research Conference, Holderness,
	NH
2018	Cellular and Molecular Fungal Biology, Gordon Research Seminar, Holderness, NH

- 2018 Department of Biological Sciences Annual Retreat, Vanderbilt University, Nashville, TN
 2015 Bumpus Symposium, Clark University, Worcester, MA
- Traina Scholars Presentation, Clark University, Worcester, MASummer Research Presentation, Clark University, Worcester, MA

EDUCATION

Vanderbilt University	Biological Sciences	Ph.D., GPA: 3.97	2016–2022
Clark University	Biochemistry and Molecular Biology	M.S., GPA: 3.98	2015–2016
Clark University	Biochemistry and Molecular Biology	B.A., GPA: 3.84	2011–2015

SERVICE

- 2023-Pres. Project Partner, Data Science Discovery Program, University of California, Berkeley
- **2023-Pres.** Executive Board Member, Berkeley Postdoctoral Entrepreneurship Program, University of California, Berkeley
- **2023-Pres.** Representative for Early Career Scientists, Allied Program Committee, The Allied Genetics Conference 2024
- **2023-Pres.** Chair of Alumni Affairs, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt University, Nashville, TN
- 2020-Pres. Founder and Chief Officer, SciArt with Purpose, https://jlsteenwyk.com/sciart.html
- 2022 Panelist at the Diversity, Equity, and Inclusion Discussion, Yeast Genetics Conference, Genetics Society of America
- 2022 Scientist-Artist: Embracing Duality, ArtLab, Vanderbilt University
- **2019-2022** Member, Steering Committee, Early Career Leadership Program, Genetics Society of America
- **2019-2022** Inclusion Coordinator, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt University, Nashville, TN
- **2019-2022** Graphic Illustrator, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt University, Nashville, TN
- 2017-2022 Educational outreach booth design and execution, MEGA Microbe, Nashville, TN
- **2017-2022** Member of the Dean of Graduate Student's survey quantitative analysis subgroup, Graduate Diversity and Inclusion Committee, Vanderbilt University, Nashville, TN
- **2017-2022** Judge, Middle Tennessee Science and Engineering Fair, Belmont University, Nashville, TN
- **2019-2021** Co-chair, Communication and Outreach Subcommittee, Genetics Society of America
- **2018-2021** Volunteer Deputy, American Society of Microbiology Vanderbilt University Chapter, Nashville, TN
- **2017-2021** Communications chair, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN
- 2020 Panelist at the Communication and Outreach Workshop, The Allied Genetics Conference, Genetics Society of America
- **2019-2020** President, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN
- **2019-2020** Co-chair, MEGA*Microbe*, Vanderbilt Institute for Infections, Immunology and Inflammation, Nashville, TN
- **2018-2019** Vice President, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN

- **2013-2019** Administrator and Owner, Molecular Biology and Biochemistry for Researchers and Students Group, LinkedIn
- 2019 Peer review workshop leader, 30th Fungal Genetics Conference at Asilomar, Pacific Grove, CA
- **2018-2019** Vice President, Graduate Student Association, Department of Biological Sciences, Vanderbilt University, Nashville, TN
- **2018-2019** Vice co-chair, MEGA*Microbe*, Vanderbilt Institute for Infections, Immunology and Inflammation, Nashville, TN
- **2017-2018** Secretary, Graduate Student Association, Department of Biological Sciences, Vanderbilt University, Nashville, TN
- 2017 Vanderbilt Student Volunteers for Science, Volunteer Science Teacher, West End Middle School, Nashville, TN
- **2014-2015** Director, Clark University Emergency Medical Services, Clark University, Worcester, MA
- **2014-2015** Subcommittee for Department of Chemistry, Biochemistry and Molecular Biology Faculty Search Committee, Clark University, Worcester, MA
- 2014-2015 Science Education Outreach Blogger, C-DEBI Sci-Curious Blog
- **2013-2014** Secretary, Clark University Emergency Medical Services, Clark University, Worcester, MA

SOCIETIES

Genetics Society of America, Society of Systematic Biologists, American Society for Microbiology, Mycological Society of America, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science

MANUSCRIPT REVIEWER

Nature Communications; Proceedings of the National Academy of Sciences, Molecular Biology and Evolution; Systematic Biology; PLOS Pathogens, Methods in Ecology and Evolution; Geneme Biology and Evolution; Genetics; G3 Genes|Genomes|Genetics; FEMS Yeast Research; and others

ART SHOWS

2021	Science Talk '21, Science Talk
2020	Catalyst: A Virtual Sci-Art Exhibition, Michigan State University
2020	Day of Wond'ry, Vanderbilt University, Nashville, TN
2020	Fire-Exhibition, Kefi Collective at Vanderbilt University, Nashville, TN
2019	Biomedical Sciences Winter Show, Vanderbilt University, Nashville, TN
2019	Focal point, ArtLab, Vanderbilt University, Nashville, TN
2019	Connecting the Dots, ArtLab, Vanderbilt University, Nashville, TN
2018	ArtLab opening reception, ArtLab, Vanderbilt University, Nashville, TN
2018	The Intersection between Art and Science, ArtLab, Vanderbilt University, Nashville,
	TN

POPULAR SCIENCE ARTICLES

- 6. **Steenwyk, J.L.** & K. Giffin. The silver lining of bioinformatics. *Genes to Genomes*. September 12, 2022
- 5. Simopoulos, M.A.C., A.F. Cisneros, A.D. Mendoza, C. Bautista, **J.L. Steenwyk**, N. Ahmad. Hurdles and advances to making science gender-neutral, *ecrLife*. November 26, 2020

- 4. Mendoza, A.D., C. Bautista, E.A. Marnik, C.M.A. Simopoulos, & **J.L. Steenwyk**. Navigating fake news as a scientist, *ecrLife*. October 8, 2020
- 3. **Steenwyk, J.L.** & M. Jonika. How to get started in science communication, *ecrLife*. August 21, 2020
- 2. **Steenwyk, J.L.** & A. Rokas. A new hybrid fungus is found in hospitals and linked to lung disease, *The Conversation*. June 4, 2020
- 1. **Steenwyk, J.L.** & A. Rokas. An outlaw yeast thrives with genetic chaos and could provide clues for understanding cancer growth, *The Conversation*. May 21, 2019

PUBLICATIONS (Trainees and I are in **bold** font.)

Preprints/Submitted

- 15. **Bjornson, S.**, N. Upham, H. Verbruggen, & **J.L. Steenwyk** (2023). Methods for phylogenomic inference, divergence-time calibration, and characterizing reticulate evolution. Preprint. DOI: 10.20944/preprints202309.0905.v1.
- 14. **Steenwyk, J.L.** & N. King (2023). From Genes to Genomes: Opportunities and Challenges for Synteny-based Phylogenomics. Preprints. DOI: 10.20944/preprints202309.0495.v1.
- 13. Liu, H.*, **J.L. Steenwyk***, X. Zhou, D.T. Schultz, K.M. Kocot, X.-X. Shen, A. Rokas^, & Y. Li^ (2023). *Equal contributors; ^Corresponding authors. A genome-scale Opisthokonta tree of life: toward phylogenomic resolution of ancient divergences. *Submitted*.
- 12. Yea, R., M. Biango-Daniels, **J.L. Steenwyk**, A. Rokas, N. Louwa, R. Nardellaa, & B.E. Wolfe (2023). Genomic, transcriptomic, and ecological diversity of *Penicillium* species in the cheese rind microbiome. *Submitted*.
- 11. Haase, M.A.B.^, **J.L. Steenwyk**, & J.D. Boeke (2023). ^Corresponding author. Gene loss and cis-regulatory novelty shaped core histone gene evolution in the apiculate yeast *Hanseniaspora uvarum*. bioRxiv. DOI: 10.1101/2023.08.28.551515
- 10. Valero, C.*, Pinzan, C.F.*, P.A. de Castro, N. van Rhijn, K. Earle, H. Liu, M.A.C. Horta, O. Kniemeyer, T. Krüger, A. Pschibul, A.A. Brakhage, J.L. Steenwyk, M.E. Mead, A. Rokas, S.G. Filler, H. Cabral, E. Deljabe, M.J. Bromley, G. Palmisano, A.S. Ibrahim, S. Gago^, T.F. dos Reis^ & G.H. Goldman^ (2023). *Equal contributors; ^Corresponding authors. A phylogenetic approach to explore the *Aspergillus fumigatus* conidial surface-associated proteome and its role in pathogenesis. bioRxiv. DOI: 10.1101/2023.08.22.553365v1
- 9. O'Meara, M.^, J. Rapala, C.B. Nichols, C. Alexandre, B. Billmyre, **J.L. Steenwyk**, J.A. Alspaugh, & T. O'Meara^ (2023). ^Corresponding authors. CryptoCEN: A Co-Expression Network for *Cryptococcus neoformans* reveals novel proteins involved in DNA damage repair. bioRxiv. DOI: 10.1101/2023.08.17.553567.
- 8. **Steenwyk, J.L.**, A. Rokas, & G.H. Goldman (2023). Know the enemy and know yourself: addressing cryptic fungal pathogens and beyond. *Submitted*.
- 7. Steenwyk, J.L., S. Knowles, R.W. Bastos, C. Balamurugan, D. Rinker, M.E. Mead, C.D. Roberts, H.A. Raja, Y. Li, A.C. Colabardini, P.A. de Castro, T.F. dos Reis, D. Canóvas, R.L. Sanchez, K. Lagrou, E. Torrado, F. Rodrigues, N.H. Oberlies, X. Zhou, G.H. Goldman^, & A. Rokas^ (2023). ^Corresponding authors. Evolutionary origin, population diversity, and diagnostics for a cryptic hybrid pathogen. bioRxiv. DOI: 10.1101/2023.07.03.547508.

- 6. Wang, J.-T.J., **J.L. Steenwyk**, & R. Brem (2023). Natural trait variation across Saccharomycotina species. *Submitted*.
- 5. Opulente, D.A.*, A.L. LaBella*, M.-C. Harrison*, J.F. Wolters*, C. Liu, Y. Li, J. Kominek, J.L. Steenwyk, H.R. Stoneman, J. VanDenAvond, C.R. Miller, Q.K. Langdon, M. Silva, C. Goncalves, E.J. Ubbelohde, Y. Li, K.V. Buh, M. Jarzyna, M.A.B. Haase, C.A. Rosa, N. Cadez, D. Libkind, J.H. DeVirgilio, A.B. Hulfachor, C.P. Kurtzman, J.P. Sampaio, P. Goncalves, X. Zhou, X.-X. Shen, M. Groenewald, A. Rokas^, & C.T. Hittinger^ (2023). *Equal co-first authors; *Equal co-second authors; *Corresponding authors. Genomic and ecological factors shaping specialism and generalism across an entire subphylum. bioRxiv. DOI: 10.1101/2023.06.19.545611.
- 4. **Balamurugan, C., J.L. Steenwyk**^, G.H. Goldman, & A. Rokas^ (2023). ^Corresponding authors. The evolution of the gliotoxin biosynthetic gene cluster in *Penicillium* fungi. bioRxiv. DOI: 10.1101/2023.01.17.524442.
- 3. **Steenwyk, J.L., C. Balamurugan**, H.A. Raja, C. Goncalves, N. Li, F. Martin, J. Berman, N.H. Oberlies, J.G. Gibbons, G.H. Goldman, D.M. Geiser, D.S. Hibbett, & A. Rokas (2022). Phylogenomics reveals extensive misidentification of fungal strains from the genus *Aspergillus*. bioRxiv. DOI: 10.1101/2022.11.22.517304
- 2. Le, H.G.B.H.^{^,*}, **J.L. Steenwyk***, N. Manske, M. Smolin, A. Abdulali, A. Kamat, R. Kanchana, K. Giffin, A. Andere, & K. Workman[^] (2022). *Equal contributors;
 ^Corresponding authors. Latch Verified Bulk-RNA Seq toolkit: a cloud-based suite of workflows for bulk RNA-seq quality control, analysis, and functional enrichment. bioRxiv. DOI: 10.1101/2022.11.10.516016
- 1. **Zheng, Q.**, **J.L. Steenwyk**^, & A. Rokas^ (2022). Lack of universal mutational biases in a fungal phylum. ^Corresponding authors. bioRxiv. DOI: 10.1101/2022.03.29.486229

Peer Review Published

- 57. Liu, C., X. Han, **J.L. Steenwyk**, & X.-X. Shen (2023). Temporal transcriptomics provides insight into host-pathogen interactions: a case study of *Didymella pinodella* and disease-resistant and -susceptible pea varieties. Crop Health. DOI: 10.1007/s44297-023-00005-w.
- 56. **Steenwyk, J.L.**, Y. Li, X. Zhou, X.-X. Shen, & A. Rokas (2023). Incongruence in the phylogenomics era. Nature Reviews Genetics. DOI: 10.1038/s41576-023-00620-x.
- 55. Drewell, R.A., T.C. Cormier, **J.L. Steenwyk**, J. St. Denis, J.F. Tabima, J.M. Dresch, & D.A. Larochelle (2023). The *Dictyostelium discoideum* genome lacks significant DNA methylation and uncovers palindromic sequences as a source of false positives in bisulfite sequencing. NAR Genomics and Bioinformatics. DOI: 10.1093/nargab/lgad035.
- 54. Mead, M.E., P.A. de Castro, **J.L. Steenwyk**, J. Gangeux, M. Hoenigl, J. Prattes, R. Rautemaa-Richardson, H. Guegan, C.B. Moore, C. Lass-Flörl, F. Reizine, C. Valero, N. Van Rhijn, M.J. Bromley, A. Rokas, G.H. Goldman, & S. Gago (2023). COVID-19 Associated Pulmonary Aspergillosis isolates are genomically diverse but similar to each other in their responses to infection-relevant stresses. mSpectrum. DOI: 10.1128/spectrum.05128-22.
- 53. Sierra-Patev, S., B. Min, M. Naranjo-Ortiz, B. Looney, Z. Konkel, J.C. Slot, Y. Sakamoto, **J.L. Steenwyk**, A. Rokas, J. Carro, S. Camarero, P. Ferreira, G. Molpeceres, F.J. Ruiz-Dueñas, A. Serrano, B. Henrissat, E. Drula, K.W. Hughes, J.L. Mata, N.K. Ishikawa, R. Vargas-Isla, S. Ushijima, C.A. Smith, S. Ahrendt, W. Andreopoulos, G. He, K. LaButti, A.

- Lipzen, V. Ng, R. Riley, L. Sandor, K. Barry, A.T. Martínez, Y. Xiao, J.G. Gibbons, K. Terashima, I.V. Grigoriev, & D. Hibbett (2023). A Global Phylogenomic Analysis of the Shiitake Genus *Lentinula*. Proceedings of the National Academy of Sciences of the United States of America (PNAS). DOI: 10.1073/pnas.2214076120.
- 52. **Steenwyk, J.L.**^ & A. Rokas^ (2023). The dawn of relaxed phylogenetics. ^Corresponding authors. PLOS Biology. DOI: 10.1371/journal.pbio.3001998
- 51. Li, Y.^, H Liu, **J.L. Steenwyk**, A.L. LaBella, M.C. Harrison, M. Groenewald, X. Zhou, X.-X. Shen, T. Zhao, C.T. Hittinger, & A. Rokas^ (2022). ^Corresponding authors. Contrasting modes of macro- and micro-synteny evolution in a eukaryotic subphylum. Current Biology. DOI: 10.1016/j.cub.2022.10.025
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