

Howard Hughes Medical Institute Gilliam Fellow, Vanderbilt University jacob.steenwyk@vanderbilt.edu http://jlsteenwyk.com/

EDUCATION

Present Ph.D. Candidate, Biological Sciences Vanderbilt University

Advisor: Antonis Rokas

GPA: 3.97

2016 M.S. Biochemistry and Molecular Biology Clark University

Advisor: John G. Gibbons

GPA: 3.98

2015 B.A. Biochemistry and Molecular Biology Clark University

Advisor: Denis Larochelle Cumulative GPA: 3.84 Science GPA: 3.84

AWARDS

2020	Registration scholarship, SACNAS – The National Diversity in STEM Virtual Conference
2020	Best Talk Honorable Mention, Canadian Fungal Research Network Meeting
2020	Trainee-of-the-Year, Vanderbilt Institute for Infection, Immunology and Inflammation
2019	Gilliam Predoctoral Fellowship, Howard Hughes Medical Institute
2019	Ann Bernard Martin Award for Excellence in Graduate Research, Vanderbilt University
2019	Ruth L. Kirschstein National Research Service Award, National Institutes of Health
2019	Ford Foundation Predoctoral Fellowship, Ford Foundation
2019	Graduate student travel grant, Vanderbilt University
2019	Curb Center Fellow, ArtLab, Vanderbilt University
2018	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	Best poster award, Department of Biological Sciences, Vanderbilt University
2018	T-shirt design contest winner, Department of Biological Sciences, Vanderbilt University
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

RESEARCH INTERESTS

- DNA damage and repair
- Gene and genome evolution
- Evolution of technologically and medically significant fungi
- Phylogenetics and phylogenomics

FIVE HIGHLIGHTED FIRST AUTHOR PUBLICATIONS (see end of CV for all publications)

Steenwyk, J.L.*, A.L. Lind*, *et al.* (2020). Pathogenic allodiploid hybrids of *Aspergillus* fungi. (*Equal contributors). *Current Biology*. doi: 10.1016/j.cub.2020.04.071

Steenwyk, J.L., *et al.* (2020). Biosynthetic gene clusters, secondary metabolite profiles, and cards of virulence in the closest nonpathogenic relatives of *Aspergillus fumigatus*. *Genetics*. doi: 10.1534/genetics.120.303549.

Steenwyk, J.L., *et al.* (2019). Extensive loss of cell cycle and DNA repair genes in an ancient lineage of bipolar budding yeasts. *PLoS Biology*. doi: 10.1371/journal.pbio.3000255

Steenwyk, J.L., *et al.* (2019). A robust phylogenomic timetree for biotechnologically and medically important fungi in the genera *Aspergillus* and *Penicillium*. *mBio*. doi: 10.1128/mBio.00925-19

Shen, X.-X.*, D.A. Opulente*, J. Kominek*, X. Zhou*, **J.L. Steenwyk**, *et al.* (2018). (*Equal contributors). Tempo and mode of genome evolution in the budding yeast subphylum. *Cell*. doi: 10.1016/j.cell.2018.10.023

SOCIETIES

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

FUNDING

Howard Hughes Medical Institute	Principal co-investigator (shared with Antonis Rokas), 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 of Health	Principal investigator, 08/19-08/22, Examining the loss of diverse DNA repair genes and long-term hypermutation in a lineage of budding yeasts, Ruth L. Kirschstein National Research Service Award, Individual Predoctoral Fellowship (Parent F31), \$88,128 (declined)
Ford Foundation Predoctoral Fellow	Principal investigator, 08/19-08/22, The consequences of aberrant cell cycle and DNA repair processes in budding yeast, Individual Predoctoral 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

INVITED TALKS

2020	Genetics Society of America, Early Career Scientist Seminar Series (forthcoming)
2020	The National Diversity in STEM Conference, SACNAS (forthcoming)
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	30 th 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
CONTRIB	UTED TALKS
2020	Evolution Seminar Series, Vanderbilt University
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
UNDERGI	RADUATE ADVISING
2019-Pres.	Olivia Zheng
2018-Pres.	Megan A. Phillips
2018-2019	Benjamin Buckman
2018	Devin G. Arrants
	OP TEACHING
2019 2019	Organizer and instructor, Values-based leadership, Vanderbilt University, Nashville, TN Founder and instructor, 'A beginner's guide to making figures in R', Vanderbilt University
2017	Nashville, TN
2019	Instructor, Workshop on Phylogenomics, Evolution and Genomics, Český Krumlov, Czech
2010	Republic State of the Control of the
2019	Instructor, Workshop on Genomics, Evolution and Genomics, Český Krumlov, Czech Republic
TEACHIN	G EXPERIENCE
2020	Guest lecture, Science Communication Tools and Techniques, Vanderbilt University, Nashville, TN
2017-2019	Teaching Assistant, Introductory Biology Lab, Vanderbilt University, Nashville, TN
2017-2019	Teaching Assistant, Introduction to Biostatistics, Clark University, Worcester, MA
2014-2015	Teaching Assistant, Cell Biology, Clark University, Worcester, MA
POSTER P	PRESENTATIONS
2020	HHMI 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

2020 The Allied Genetics Conference, Virtual Conference 2019 HHMI Investigators Science Meeting, Howard Hughes Medical Institute, Bethesda, MD Gilliam Fellows Annual Meeting, Howard Hughes Medical Institute, Bethesda, MD 2019 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 Asperfest pre-meeting at 30th Fungal Genetics Conference at Asilomar, Pacific Grove, CA 2019 Cellular and Molecular Fungal Biology, Gordon Research Conference, Holderness, NH 2018 Cellular and Molecular Fungal Biology, Gordon Research Seminar, Holderness, NH 2018

2018	Department of Biological Sciences Annual Retreat, Vanderbilt University, Nashville, TN
2015	Bumpus Symposium, Clark University, Worcester, MA
2015	Traina Scholars Presentation, Clark University, Worcester, MA
2015	Summer Research Presentation, Clark University, Worcester, MA
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RESEARC	TH EXPERIENCE
2016-Pres.	Antonis Rokas Lab at Vanderbilt University, Nashville, TN. Doctoral Research. Evolution of
	medically and technologically significant fungi.
2015-2016	John Gibbons Lab at Clark University, Worcester, MA. Undergraduate and Master's
	Research. Copy number variation in the human pathogen, Cryptococcus gattii.
2015-2016	Robert Drewell Lab at Clark University, Worcester, MA. Undergraduate and Master's
	Research. Genome-wide methylation patterns in the social amoeba, <i>Dictyostelium</i>
2014	discoideum.
2014	Ite A. Laird-Offringa Lab at University of Southern California, Los Angeles, CA. Bridging
	the Gaps Summer Scholar. Mapping the autoimmune triggering epitope of <i>ELAVL4</i> in small
2013	cell lung cancer. John Heidelberg and Eric Webb Labs at University of Southern California, Los Angeles,
2013	CA. Global Environmental Microbiology Summer Scholar. Fresh and marine water
	microbial diversity.
SERVICE	
2020-Pres.	Founder and Chief Officer, SciArt with Purpose, https://jlsteenwyk.com/sciart.html
2020	Panelist at the Communication and Outreach Workshop, The Allied Genetics Conference,
	Genetics Society of America
2019-Pres.	, , , , , , , , , , , , , , , , , , ,
2019-Pres.	
_01/ 11000	Inclusion Coordinator, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt
	University, Nashville, TN
2019-Pres.	University, Nashville, TN Graphic Illustrator, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt University,
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2019-Pres. 2019-Pres. 2018-Pres.	University, Nashville, TN Graphic Illustrator, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt University, Nashville, TN President, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN Volunteer Deputy, American Society of Microbiology Vanderbilt University Chapter, Nashville, TN
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2019-Pres. 2019-Pres. 2018-Pres. 2017-Pres. 2017-Pres. 2017-Pres. 2017-Pres. 2019-2020	University, Nashville, TN Graphic Illustrator, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt University, Nashville, TN President, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN Volunteer Deputy, American Society of Microbiology Vanderbilt University Chapter, Nashville, TN Educational outreach booth design and execution, MEGA <i>Microbe</i> , Nashville, TN Communications chair, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN Member of the Dean of Graduate Student's survey quantitative analysis subgroup, Graduate Diversity and Inclusion Committee, Vanderbilt University, Nashville, TN Judge, Middle Tennessee Science and Engineering Fair, Belmont University, Nashville, TN Co-chair, MEGA <i>Microbe</i> , Vanderbilt Institute for Infections, Immunology and Inflammation, Nashville, TN
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2019-Pres. 2019-Pres. 2018-Pres. 2017-Pres. 2017-Pres. 2017-Pres. 2017-Pres. 2019-2020	University, Nashville, TN Graphic Illustrator, The Evolutionary Studies Initiative at Vanderbilt, Vanderbilt University, Nashville, TN President, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN Volunteer Deputy, American Society of Microbiology Vanderbilt University Chapter, Nashville, TN Educational outreach booth design and execution, MEGAMicrobe, Nashville, TN Communications chair, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN Member of the Dean of Graduate Student's survey quantitative analysis subgroup, Graduate Diversity and Inclusion Committee, Vanderbilt University, Nashville, TN Judge, Middle Tennessee Science and Engineering Fair, Belmont University, Nashville, TN Co-chair, MEGAMicrobe, Vanderbilt Institute for Infections, Immunology and Inflammation, Nashville, TN Vice President, Inclusivity in Biosciences Association, Vanderbilt University, Nashville, TN

2018-2019 Vice co-chair, MEGA*Microbe*, Vanderbilt Institute for Infections, Immunology and Inflammation, Nashville, TN

2018-2019 Vice President, Graduate Student Association, Department of Biological Sciences,

Vanderbilt University, Nashville, TN

2017-2018 Secretary, Graduate Student Association, Department of Biological Sciences, Vanderbilt University, Nashville, TN
 2017-2018 Scientific consultant, Little Harpeth Brewing, Nashville, TN
 2017 Vanderbilt Student Volunteers for Science, Volunteer Science Teacher, West End Middle School, Nashville, TN
 2014-2015 Undergraduate 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

ART SHOWS

2020	Catalyst: A virtual Sci-Art Exhibition, Michigan State University (forthcoming)
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

MANUSCRIPT REVIEWER

Systematic Biology; Genome Biology and Evolution; BMC Genomics; Nature Communications Biology; Genetics; G3: Genes | Genomes | Genetics; PLoS One; Molecular Genetics and Genomics; Young Scientists Journal; Scholarly Undergraduate Research Journal

POPULAR SCIENCE ARTICLES

- (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

Preprints

- (4) Li, Y., **J.L. Steenwyk**, Y. Chang, Y. Wang, T.Y. James, J.E. Stajich, J.W. Spatafora, M. Groenewald, C. Dunn, C.T. Hittinger, X.-X. Shen, A. Rokas (2020). A genome-scale phylogeny of Fungi; insights into early evolution, radiations, and the relationship between taxonomy and phylogeny. bioRxiv. doi: 10.1101/2020.08.23.262857v1
- (3) LaBella, A.L., D. Opulente, **J.L. Steenwyk**, C.T. Hittinger, & A. Rokas (2020). Signatures of optimal codon usage predict metabolic ecology in budding yeasts. bioRxiv. doi: 10.1101/2020.07.22.214635.
- (2) **Steenwyk, J.L.**^, T.J. Buida III, Y. Li, X.-X. Shen, & A. Rokas^ (2020). ClipKIT: a multiple sequence alignment-trimming algorithm for accurate phylogenomic inference. (^Senior authors). bioRxiv. doi: 10.1101/2020.06.08.140384.
- (1) **Steenwyk, J.**, J. St. Denis, J. Dresch, D. Larochelle, & R. Drewell (2017). Whole genome bisulfite sequencing reveals a sparse, but robust pattern of DNA methylation in the *Dictyostelium discoideum* genome. bioRxiv. doi: 10.1101/166033

Peer Review Published

- (30) Li, Y., K.T. David, X.-X. Shen, **J.L. Steenwyk**, K.M. Halanych, & A. Rokas (2020). Feature Frequency Profile-based phylogenies are inaccurate. Proceedings of the National Academy of Sciences of the United States of America (PNAS): *in press*.
- Shen, X.-X.^, **J.L. Steenwyk**, A.L. LaBella, D.A. Opulente, X. Zhou, J. Kominek, Y. Li, M. Groenewald, C.T. Hittinger, & A. Rokas^ (2020). Genome-scale phylogeny and contrasting modes of genome evolution in the fungal phylum Ascomycota. (^Senior authors). Science Advances: *in press*.
- (28) Santos, R.A.C., O. Rivero-Menendez, **J.L. Steenwyk**, M.E. Mead, G.H. Goldman[^], A. Alastruey-Izquierdo, & A. Rokas[^] (2020). Draft genome sequences of four *Aspergillus* section *Fumigati* clinical strains. ([^]Senior authors) Microbiology Resource Announcements. doi: 10.1128/MRA.00856-20.
- Filho, A.P.C., G.T.P. Brancini, P.A. de Castro, J.A. Ferreira, L.P. Silva, M.C. Rocha, I. Malavazi, J.G.M. Pontes, T. Fill, R. Silva, F. Almeida, **J.L. Steenwyk**, A. Rokas, T.F. dos Reis, L.N.A. Ries, & G.H. Goldman (2020). *Aspergillus fumigatus* G-protein coupled receptors GprM and GprJ are important for the regulation of the cell wall integrity pathway, secondary metabolite production, and virulence. mBio: *in press*.
- (26) **Steenwyk, J.L.** (2020). A portrait of budding yeasts: A symbol of the arts, sciences and a whole greater than the sum of its parts. Yeast. doi: 10.1002/yea.3518.
- (25) **Steenwyk, J.L.**, M.E. Mead*, S.L. Knowles*, H.A. Raja, C.D. Roberts, O. Bader, J. houbraken, G.H. Goldman, N.H. Oberlies, & A. Rokas (2020). Biosynthetic gene clusters, secondary metabolite profiles, and cards of virulence in the closest nonpathogenic relatives of *Aspergillus fumigatus*. (*Equal contributors). Genetics. doi: 10.1534/genetics.120.303549.
- Ries, L.N.A., L. Pardeshi, Z. Dong, K. Tan, **J.L. Steenwyk**, A.C. Colabardini, J.A.F. Filho, P.A. de Castro, L.P. Silva, N.W. Preite, F. Almeida, L.J. de Assis, R.A.C. dos Santos, P. Bowyer, M. Bromley, R.A. Owens, S. Doyle, M. Demasi, D.C.R. Hernández, L.E.S. Netto, M.T. Pupo, A. Rokas, F.V. Loures, K.H. Wong, & G.H. Goldman (2020). The *Aspergillus fumigatus* transcription factor RglT is important for gliotoxin biosynthesis and self-protection, and virulence. PLoS Pathogens. doi: 10.1371/journal.ppat.1008645
- 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; ^Senior authors). Current Biology. doi: 10.1016/j.cub.2020.04.071
- Mead, M.E.*, A.T. Borowsky*, B. Joehnk, **J.L. Steenwyk**, X.-X. Shen, A. Sil, & A. Rokas (2020). Recurrent loss of *abaA*, a master regulator of asexual development in filamentous fungi, correlates with changes in genomic and morphological traits. (*Equal contributors). Genome Biology and Evolution. doi: 10.1093/gbe/evaa107
- (21) Santos, R.A.C., **J.L. Steenwyk**, O. Rivero-Menendez, M.E. Mead, L.P. Silva, R.W. Bastos, A. Alastruey-Izquierdo, G.H. Goldman[^], & A. Rokas[^] (2020). Genomic and phenotypic heterogeneity of clinical isolates of the human pathogens *Aspergillus fumigatus, Aspergillus lentulus* and *Aspergillus fumigatiaffinis*. ([^]Senior contributors). Frontiers in Genetics. doi: 10.3389/fgene.2020.00459.

- (20) Bastos, R.W., C. Valero, L.P. Silva, T. Schoen, M. Drott, V. Brauer, R. Silva-Rocha, A. Lind, **J.L. Steenwyk**, A. Rokas, F. Rodrigues, A. Resendiz-Sharpe, K. Lagrou, M. Marcet-Houben, T. Gabaldon, E. McDonnell, I. Reid, A. Tsang, B.R. Oakley, F. Loures, F. Almeida, A. Huttenlocher, N.P. Keller, L. Ries, G.H. Goldman (2020). Functional characterization of clinical isolates of the opportunistic fungal pathogen *Aspergillus nidulans*. mSphere. doi: 10.1128/mSphere.00153-20.
- (19) Rokas, A., M.E. Mead, **J.L. Steenwyk**, N.H. Oberlies, & G.H. Goldman (2020). Evolving moldy murderers: *Aspergillus* section *Fumigati* as a model for studying the repeated evolution of fungal pathogenicity. PLoS Pathogens. doi: 10.1371/journal.ppat.1008315.
- (18) Knowles, S.L., M.E. Mead, L.P. Silva, H.A. Raja, **J.L. Steenwyk**, G.H. Gustavo, A. Rokas, & N.H. Oberlies (2020). Gliotoxin, a known virulence factor in the major human pathogen *Aspergillus fumigatus*, is also biosynthesized by the non-pathogenic relative *A. fischeri*. mBio. doi: 10.1128/mBio.03361-19.
- Libkind, D., D. Peris, F.A. Cubillos, **J.L. Steenwyk**, D.A. Opulente, Q.K. Langdon, N. Bellora, A. Rokas, & C.T. Hittinger (2020). Into the wild: new yeast genomes from natural environments and new tools for their analysis. FEMS Yeast Research. doi: 10.1093/femsyr/foaa008.
- (16) Rokas, A., M.E. Mead, **J.L. Steenwyk**, H.A. Raja, & N.H., Oberlies (2020). Biosynthetic gene clusters and the evolution of fungal chemodiversity. Natural Product Reports. doi: 10.1039/C9NP00045C.
- (15) Bodinakku, I., J. Shaffer, A.B. Connors, **J.L. Steenwyk**, E. Kastman, A. Rokas, A. Robbat, B. Wolfe (2019). Rapid phenotypic and metabolomics domestication of wild *Penicillium* molds on cheese. mBio. doi: 10.1128/mBio.02445-19.
- (14) Mead, M.E.*, H.A. Raja*, **J.L. Steenwyk**, S.L. Knowles, N.H. Oberlies^, & A. Rokas^ (2019). Draft genome sequence of the griseofulvin-producing fungus *Xylaria flabelliformis* strain G536. (*Equal contributors; ^Senior authors) Microbiology Resource Announcements. doi: 10.1128/MRA.00890-19.
- (13) **Steenwyk, J.L.** & A. Rokas (2019). treehouse: a user-friendly application to obtain subtrees from large phylogenies. BMC Research Notes. doi: 10.1186/s13104-019-4577-5
- (12) Labella, A.L., D.A. Opulente, **J.L. Steenwyk**, C.T. Hittinger, & A. Rokas (2019). Variation and selection on codon usage bias across an entire subphylum. PLoS Genetics. doi: 10.1371/journal.pgen.1008304
- (11) **Steenwyk, J.L.**, X.-X. Shen, A.L. Lind, G.H. Goldman, & A. Rokas (2019). A robust phylogenomic timetree for biotechnologically and medically important fungi in the genera *Aspergillus* and *Penicillium*. mBio. doi: 10.1128/mBio.00925-19
- (10) **Steenwyk, J.L.**, D. Opulente, J. Kominek, X.-X. Shen, X. Zhou, A.L. LaBella, N.P. Bradley, B.F. Eichman, N. Čadež, D. Libkind, J. DeVirgilio, A.B. Hulfachor, C.P. Kurtzman, C.T. Hittinger[^], & A. Rokas[^] (2019). Extensive loss of cell cycle and DNA repair genes in an ancient lineage of bipolar budding yeasts. ([^]Senior authors) PLoS Biology. doi: 10.1371/journal.pbio.3000255
- (9) Ries, L.N.A., **J.L. Steenwyk**, P.A. de Castro, P.B.A. de Lima, F. Almeida, L.J. de Assis, A.O. Manfiolli, A. Takahashi-Nakaguchi, Y. Kusuya, D. Hagiwara, H. Takahashi, X. Wang, J. Obar, A. Rokas, & G.H. Goldman (2019). Nutritional heterogeneity among *Aspergillus fumigatus* strains has consequences for virulence in a strain- and host-dependent manner.

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