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Education

2006–2009 Postdoctoral training, University of California, Berkeley, CA. Mentor: Dr. John W Taylor
2001–2006 Ph.D., Genetics and Genomics, Duke University, Durham, NC. Advisor: Dr. Fred S Dietrich
1995–1999 B.S., Computer Science, Duke University, Durham, NC

Academic appointments:

2017– Professor, Dept of Microbiology & Plant Pathology. University of California Riverside.
2014–2017 Associate Professor (with tenure), Dept of Microbiology & Plant Pathology. University of California Riverside.
2009–2014 Assistant Professor, Dept of Plant Pathology & Microbiology. University of California Riverside.
2006–2009 Postdoctoral Research Fellow. Miller Institute for Basic Research.
Dept of Plant and Microbial Biology, University of California Berkeley.

Honors and Awards:

2020 Fellow, American Association for the Advancement of Science
2020 Fellow, Mycological Society of America
2020 Fellow, American Academy of Microbiology, American Society for Microbiology
2019–2025 CIFAR Fellow in program 'Fungal Kingdom: Threats & Opportunities'
2019 Rosie Perez Memorial Seminar, North Carolina State University
2017 Whetzel-Westcott-Dimock Special Lecturer, Cornell University
2015 Kavli Fellow, Kavli Frontiers of Science
2014 C. J. Alexopoulos Prize, Mycological Society of America
2006–2009 Miller Institute for Basic Research in Science, Postdoctoral Research Fellowship
2003–2006 National Science Foundation, Graduate Research Fellowship

Publications:

Peer Reviewed Publications

1. Baxter, R. V., Othmane, K. B., Rochelle, J. M., **Stajich**, J. E., Hulette, C., Dew-Knight, S., Hentati, F., Hamida, M. B., Bel, S., Stenger, J. E., Gilbert, J. R., Pericak-Vance, M. A., and Vance, J. M. 2002. Ganglioside-induced differentiation-associated protein-1 is mutant in Charcot-Marie-Tooth disease type 4A/8q21. *Nat Genet* 30(1):21–22. doi:10.1038/ng796.
2. **Stajich**, J. E., Block, D., Boulez, K., Brenner, S. E., Chervitz, S. A., Dagdigian, C., Fuellen, G., Gilbert, J. G. R., Korf, I., Lapp, H., Lehtväslaiho, H., Matsalla, C., Mungall, C. J., Osborne, B. I., Pocock, M. R., Schattner, P., Senger, M., Stein, L. D., Stupka, E., Wilkinson, M. D., and Birney, E. 2002. The Bioperl toolkit: Perl modules for the life sciences. *Genome Res* 12(10):1611–1618. doi:10.1101/gr.361602.
3. Stein, L. D., Mungall, C., Shu, S., Caudy, M., Mangone, M., Day, A., Nickerson, E., **Stajich**, J. E., Harris, T. W., Arva, A., and Lewis, S. 2002. The generic genome browser: a building block for a model organism system database. *Genome Res* 12(10):1599–1610. doi:10.1101/gr.403602.
4. Hahn, M. W., **Stajich**, J. E., and Wray, G. A. 2003. The effects of selection against spurious transcription factor binding sites. *Mol Biol Evol* 20(6):901–906. doi:10.1093/molbev/msg096.

5. Stein, L. D., Bao, Z., Blasiar, D., Blumenthal, T., Brent, M. R., Chen, N., Chinwalla, A., Clarke, L., Clee, C., Coghlan, A., Coulson, A., D'Eustachio, P., Fitch, D. H. A., Fulton, L. A., Fulton, R. E., Griffiths-Jones, S., Harris, T. W., Hillier, L. W., Kamath, R., Kuwabara, P. E., Mardis, E. R., Marra, M. A., Miner, T. L., Minx, P., Mullikin, J. C., Plumb, R. W., Rogers, J., Schein, J. E., Sohrmann, M., Spieth, J., **Stajich**, J. E., Wei, C., Willey, D., Wilson, R. K., Durbin, R., and Waterston, R. H. 2003. The genome sequence of *Caenorhabditis briggsae*: a platform for comparative genomics. *PLoS Biol* 1(2):E45. doi:10.1371/journal.pbio.0000045.
6. Kraus, P. R., Boily, M.-J., Giles, S. S., **Stajich**, J. E., Allen, A., Cox, G. M., Dietrich, F. S., Perfect, J. R., and Heitman, J. 2004. Identification of *Cryptococcus neoformans* temperature-regulated genes with a genomic-DNA microarray. *Eukaryot Cell* 3(5):1249–1260. doi:10.1128/EC.3.5.1249-1260.2004.
7. Fraser, J. A., Giles, S. S., Wenink, E. C., Geunes-Boyer, S. G., Wright, J. R., Diezmann, S., Allen, A., **Stajich**, J. E., Dietrich, F. S., Perfect, J. R., and Heitman, J. 2005. Same-sex mating and the origin of the Vancouver Island *Cryptococcus gattii* outbreak. *Nature* 437(7063):1360–1364. doi:10.1038/nature04220.
8. Hahn, M. W., Bie, T. D., **Stajich**, J. E., Nguyen, C., and Cristianini, N. 2005. Estimating the tempo and mode of gene family evolution from comparative genomic data. *Genome Res* 15(8):1153–1160. doi:10.1101/gr.3567505.
9. Leman, S. C., Chen, Y., **Stajich**, J. E., Noor, M. A. F., and Uyenoyama, M. K. 2005. Likelihoods from summary statistics: recent divergence between species. *Genetics* 171(3):1419–1436. doi:10.1534/genetics.104.040402.
10. Mitreva, M., McCarter, J. P., Arasu, P., Hawdon, J., Martin, J., Dante, M., Wylie, T., Xu, J., **Stajich**, J. E., Kapulkin, W., Clifton, S. W., Waterston, R. H., and Wilson, R. K. 2005. Investigating hookworm genomes by comparative analysis of two *Ancylostoma* species. *BMC Genomics* 6(1):58. doi:10.1186/1471-2164-6-58.
11. **Stajich**, J. E. and Hahn, M. W. 2005. Disentangling the effects of demography and selection in human history. *Mol Biol Evol* 22(1):63–73. doi:10.1093/molbev/msh252.
12. Hesselberth, J. R., Miller, J. P., Golob, A., **Stajich**, J. E., Michaud, G. A., and Fields, S. 2006. Comparative analysis of *Saccharomyces cerevisiae* WW domains and their interacting proteins. *Genome Biol* 7(4):R30. doi:10.1186/gb-2006-7-4-r30.
13. Cramer, R. A., **Stajich**, J. E., Yamanaka, Y., Dietrich, F. S., Steinbach, W. J., and Perfect, J. R. 2006. Phylogenomic analysis of non-ribosomal peptide synthetases in the genus *Aspergillus*. *Gene* 383:24–32. doi:10.1016/j.gene.2006.07.008.
14. Giles, S. S., **Stajich**, J. E., Nichols, C., Gerrald, Q. D., Alspaugh, J. A., Dietrich, F., and Perfect, J. R. 2006. The *Cryptococcus neoformans* catalase gene family and its role in antioxidant defense. *Eukaryot Cell* 5(9):1447–1459. doi:10.1128/EC.00098-06.
15. **Stajich**, J. E. and Dietrich, F. S. 2006. Evidence of mRNA-mediated intron loss in the human-pathogenic fungus *Cryptococcus neoformans*. *Euk Cell* 5(5):789–793. doi:10.1128/EC.5.5.789-793.2006.
16. Kämper, J., Kahmann, R., Bölker, M., Ma, L.-J., Brefort, T., Saville, B. J., Banuett, F., Kronstad, J. W., Gold, S. E., Müller, O., Perlin, M. H., Wösten, H. A. B., de Vries, R., Ruiz-Herrera, J., na, C. G. R.-P., Snetselaar, K., McCann, M., Pérez-Martín, J., Feldbrügge, M., Basse, C. W., Steinberg, G., Ibeas, J. I., Holloman, W., Guzman, P., Farman, M., **Stajich**, J. E., Sentandreu, R., González-Prieto, J. M., Kennell, J. C., Molina, L., Schirawski, J., Mendoza-Mendoza, A., Greilinger, D., Münch, K., Rössel, N., Scherer, M., Vranes, M., Ladendorf, O., Vincon, V., Fuchs, U., Sandrock, B., Meng, S., Ho, E. C. H., Cahill, M. J., Boyce, K. J., Klose, J., Klosterman, S. J., Deelstra, H. J., Ortiz-Castellanos, L., Li, W., Sanchez-Alonso, P., Schreier, P. H., Häuser-Hahn, I., Vaupel, M., Koopmann, E., Friedrich, G., Voss, H., Schlüter, T., Margolis, J., Platt, D., Swimmer, C., Gnirke, A., Chen, F.,

- Vysotskaia, V., Mannhaupt, G., Güldener, U., Münsterkötter, M., Haase, D., Oesterheld, M., Mewes, H.-W., Mauceli, E. W., DeCaprio, D., Wade, C. M., Butler, J., Young, S., Jaffe, D. B., Calvo, S., Nusbaum, C., Galagan, J., and Birren, B. W. 2006. Insights from the genome of the biotrophic fungal plant pathogen *Ustilago maydis*. *Nature* 444(7115):97–101. doi:10.1038/nature05248.
17. James, T. Y., Kauff, F., Schoch, C. L., Matheny, P. B., Hofstetter, V., Cox, C. J., Celio, G., Gueidan, C., Fraker, E., Miadlikowska, J., Lumbsch, H. T., Rauhut, A., Reeb, V., Arnold, A. E., Amtoft, A., **Stajich**, J. E., Hosaka, K., Sung, G.-H., Johnson, D., O'Rourke, B., Crockett, M., Binder, M., Curtis, J. M., Slot, J. C., Wang, Z., Wilson, A. W., Schüßler, A., Longcore, J. E., O'Donnell, K., Mozley-Standridge, S., Porter, D., Letcher, P. M., Powell, M. J., Taylor, J. W., White, M. M., Griffith, G. W., Davies, D. R., Humber, R. A., Morton, J. B., Sugiyama, J., Rossman, A. Y., Rogers, J. D., Pfister, D. H., Hewitt, D., Hansen, K., Hambleton, S., Shoemaker, R. A., Kohlmeyer, J., Volkmann-Kohlmeyer, B., Spotts, R. A., Serdani, M., Crous, P. W., Hughes, K. W., Matsuura, K., Langer, E., Langer, G., Untereiner, W. A., Lücking, R., Büdel, B., Geiser, D. M., Aptroot, A., Diederich, P., Schmitt, I., Schultz, M., Yahr, R., Hibbett, D. S., Lutzoni, F., McLaughlin, D. J., Spatafora, J. W., and Vilgalys, R. 2006. Reconstructing the early evolution of Fungi using a six-gene phylogeny. *Nature* 443(7113):818–822. doi:10.1038/nature05110.
 18. Demuth, J. P., Bie, T. D., **Stajich**, J. E., Cristianini, N., and Hahn, M. W. 2006. The evolution of mammalian gene families. *PLoS One* 1:e85. doi:10.1371/journal.pone.0000085.
 19. Fitzpatrick, D. A., Logue, M. E., **Stajich**, J. E., and Butler, G. 2006. A fungal phylogeny based on 42 complete genomes derived from supertree and combined gene analysis. *BMC Evol Biol* 6:99. doi:10.1186/1471-2148-6-99.
 20. Erwin, T. A., Jewell, E. G., Love, C. G., Lim, G. A. C., Li, X., Chapman, R., Batley, J., **Stajich**, J. E., Mongin, E., Stupka, E., Ross, B., Spangenberg, G., and Edwards, D. 2007. BASC: an integrated bioinformatics system for *Brassica* research. *Nucleic Acids Res* 35(Database issue):D870–D873. doi:10.1093/nar/gkl998.
 21. Harrison, L. B., Yu, Z., **Stajich**, J. E., Dietrich, F. S., and Harrison, P. M. 2007. Evolution of budding yeast prion-determinant sequences across diverse fungi. *J Mol Biol* 368(1):273–282. doi:10.1016/j.jmb.2007.01.070.
 22. Fraser, J. A., **Stajich**, J. E., Tarcha, E. J., Cole, G. T., Inglis, D. O., Sil, A., and Heitman, J. 2007. Evolution of the mating type locus: insights gained from the dimorphic primary fungal pathogens *Histoplasma capsulatum*, *Coccidioides immitis*, and *Coccidioides posadasii*. *Eukaryot Cell* 6(4):622–629. doi:10.1128/EC.00018-07.
 23. **Stajich**, J. E., Dietrich, F. S., and Roy, S. W. 2007. Comparative genomic analysis of fungal genomes reveals intron-rich ancestors. *Genome Biol* 8(10):R223. doi:10.1186/gb-2007-8-10-r223.
 24. Hu, G., Liu, I., Sham, A., **Stajich**, J. E., Dietrich, F. S., and Kronstad, J. W. 2008. Comparative hybridization reveals extensive genome variation in the aids-associated pathogen *Cryptococcus neoformans*. *Genome Biol* 9(2):R41. doi:10.1186/gb-2008-9-2-r41.
 25. Lilly, W. W., **Stajich**, J. E., Pukkila, P. J., Wilke, S. K., Inoguchi, N., and Gathman, A. C. 2008. An expanded family of fungalysin extracellular metalloproteinases of *Coprinopsis cinerea*. *Mycol Res* 112(Pt 3):389–398. doi:10.1016/j.mycres.2007.11.013.
 26. Martin, F., Aerts, A., Ahrén, D., Brun, A., Danchin, E. G. J., Duchaussoy, F., Gibon, J., Kohler, A., Lindquist, E., Pereda, V., Salamov, A., Shapiro, H. J., Wuyts, J., Blaudez, D., Buée, M., Brokstein, P., Canbäck, B., Cohen, D., Courty, P. E., Coutinho, P. M., Delaruelle, C., Detter, J. C., Deveau, A., DiFazio, S., Duplessis, S., Fraissinet-Tachet, L., Lucic, E., Frey-Klett, P., Fourrey, C., Feussner, I., Gay, G., Grimwood, J., Hoegger, P. J., Jain, P., Kilaru, S., Labbé, J., Lin, Y. C., Legué, V., Tacon, F. L., Marmeisse, R., Melayah, D., Montanini, B., Muratet, M., Nehls, U., Niculita-Hirzel, H., Secq, M. P. O.-L., Peter, M., Quesneville, H., Rajashekar, B., Reich, M., Rouhier, N., Schmutz, J., Yin, T., Chalot, M., Henrissat, B., Kües, U., Lucas, S., de Peer, Y. V., Podila, G. K., Polle, A., Pukkila, P. J., Richardson, P. M., Rouzé, P., Sanders, I. R., **Stajich**, J. E., Tunlid, A., Tuskan, G., and Grigoriev,

- I. V. 2008. The genome of *Laccaria bicolor* provides insights into mycorrhizal symbiosis. *Nature* 452(7183):88–92. doi:10.1038/nature06556.
27. Regier, J. C., Shultz, J. W., Ganley, A. R. D., Hussey, A., Shi, D., Ball, B., Zwick, A., **Stajich, J. E.**, Cummings, M. P., Martin, J. W., and Cunningham, C. W. 2008. Resolving arthropod phylogeny: exploring phylogenetic signal within 41 kb of protein-coding nuclear gene sequence. *Syst Biol* 57(6):920–938. doi:10.1080/10635150802570791.
 28. Rosenblum, E. B., **Stajich, J. E.**, Maddox, N., and Eisen, M. B. 2008. Global gene expression profiles for life stages of the deadly amphibian pathogen *Batrachochytrium dendrobatidis*. *Proc Natl Acad Sci U S A* 105(44):17034–17039. doi:10.1073/pnas.0804173105.
 29. Fisher, M. C., Bosch, J., Yin, Z., Stead, D. A., Walker, J., Selway, L., Brown, A. J. P., Walker, L. A., Gow, N. A. R., **Stajich, J. E.**, and Garner, T. W. J. 2009. Proteomic and phenotypic profiling of the amphibian pathogen *Batrachochytrium dendrobatidis* shows that genotype is linked to virulence. *Mol Ecol* 18(3):415–429. doi:10.1111/j.1365-294X.2008.04041.x.
 30. Sharpton, T. J., **Stajich, J. E.**, Rounsley, S. D., Gardner, M. J., Wortman, J. R., Jordar, V. S., Maiti, R., Kodira, C. D., Neafsey, D. E., Zeng, Q., Hung, C.-Y., McMahan, C., Muszewska, A., Grynberg, M., Mandel, M. A., Kellner, E. M., Barker, B. M., Galgiani, J. N., Orbach, M. J., Kirkland, T. N., Cole, G. T., Henn, M. R., Birren, B. W., and Taylor, J. W. 2009. Comparative genomic analyses of the human fungal pathogens *Coccidioides* and their relatives. *Genome Res* 19(10):1722–1731. doi:10.1101/gr.087551.108.
 31. Nowrousian, M., **Stajich, J. E.**, Engh, I., Espagne, E., Kamerewerd, J., Kempken, F., Kunstmann, B., Kuo, H.-C., Osiewacz, H. D., Pöggeler, S., Read, N., Seiler, S., Smith, K., Zickler, D., Kück, U., and Freitag, M. 2010. Next-generation sequencing of the 40 Mb genome of the filamentous fungus *Sordaria macrospora*. *PLoS Genetics* 6(4):e1000891. doi:10.1371/journal.pgen.1000891.
 32. Neafsey, D. E., Barker, B. M., Sharpton, T. J., **Stajich, J. E.**, Park, D. J., Whiston, E., Hung, C.-Y., McMahan, C., White, J., Sykes, S., Heiman, D., Young, S., Zeng, Q., Abouelleil, A., Aftuck, L., Bessette, D., Brown, A., Fitzgerald, M., Lui, A., Macdonald, J. P., Priest, M., Orbach, M. J., Galgiani, J. N., Kirkland, T. N., Cole, G. T., Birren, B. W., Henn, M. R., Taylor, J. W., and Rounsley, S. D. 2010. Population genomic sequencing of *Coccidioides* fungi reveals recent hybridization and transposon control. *Genome Res* 20(7):938–946. doi:10.1101/gr.103911.109.
 33. **Stajich, J. E.**, Wilke, S. K., Ahrén, D., Au, C. H., Birren, B. W., Borodovsky, M., Burns, C., Canbäck, B., Casselton, L. A., Cheng, C. K., Deng, J., Dietrich, F. S., Fargo, D. C., Farman, M. L., Gathman, A. C., Goldberg, J., Guigó, R., Hoegger, P. J., Hooker, J. B., Huggins, A., James, T. Y., Kamada, T., Kilaru, S., Kodira, C., Kües, U., Kupfer, D., Kwan, H. S., Lomsadze, A., Li, W., Lilly, W. W., Ma, L.-J., Mackey, A. J., Manning, G., Martin, F., Muraguchi, H., Natvig, D. O., Palmerini, H., Ramesh, M. A., Rehmeier, C. J., Roe, B. A., Shenoy, N., Stanke, M., Ter-Hovhannisyan, V., Tunlid, A., Velagapudi, R., Vision, T. J., Zeng, Q., Zolan, M. E., and Pukkila, P. J. 2010. Insights into evolution of multicellular fungi from the assembled chromosomes of the mushroom *Coprinopsis cinerea* (*Coprinus cinereus*). *Proc Natl Acad Sci U S A* 107(26):11889–11894. doi:10.1073/pnas.1003391107.
 34. Ohm, R. A., de Jong, J. F., Lugones, L. G., Aerts, A., Kothe, E., **Stajich, J. E.**, de Vries, R. P., Record, E., Levasseur, A., Baker, S. E., Bartholomew, K. A., Coutinho, P. M., Fowler, T. J., Gathman, A. C., Lombard, V., Henrissat, B., Knabe, N., Kües, U., Lilly, W. W., Lindquist, E., Lucas, S., Magnuson, J. K., Piumi, F., Raudaskoski, M., Salamov, A., Schmutz, J., Schwarze, F. W., vanKuyk, P. A., Horton, J. S., Grigoriev, I. V., and Wösten, H. A. 2010. Genomic sequence of the wood-rotting *Schizophyllum commune* strain H4-8: a model mushroom system. *Nature Biotech* 28:957–963. doi:10.1038/nbt.1643.
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41. Joneson, S., **Stajich**, J. E., Shiu, S.-H., and Rosenblum, E. B. 2011. Genomic transition to pathogenicity in chytrid fungi. *PLoS Pathogens* 7(11):e1002338. doi:10.1371/journal.ppat.1002338.
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Software and other Products

BioPerl - <http://bioperl.org> - Core developer

Github <http://github.com/hyphaltip> - individual projects
 Github <http://github.com/stajichlab> - lab projects
 Protocols.io Protocols <https://www.protocols.io/researchers/jason-stajich> - public protocols
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 Github <http://github.com/zygolife> - ZyGoLife NSF project and associated phylogenomics
 Website: <http://1000.fungalgenomes.org> - 1KFG project
 Website: <http://herptilemicrobiomes.org> - NSF URoL Herptile Microbiomes
 Website: <http://zygolife.org> - NSF ZygoLife
 Website: <http://dynamiterice.org> - NSF Rice Transposable Element project
 Website: <http://fungalgenomes.org/blog> - “The Hyphal Tip” A Blog I write about Fungal Genomics
 Website & Database (Collaboration): <http://fungidb.org>

Grant Support:

Ongoing support

| | |
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| 2017-2026 | National Institutes of Health. R01-AI127548 “Evolved Heterogeneity contributes to chronic fungal lung infections” Role: Senior Personnel. PI: D Hogan (Dartmouth) |
| 2017-2022 | National Institutes of Health. R01-AI130128 “Evolution of <i>Aspergillus fumigatus</i> virulence” Role: Senior Personnel. PI: RA Cramer, Jr (Dartmouth) |
| 2019-2022 | National Institutes of Health. R15-GM132869 “Understanding The Mechanisms Of Spatial Protein Quality Control In A Model Filamentous Fungus” Role: Senior Personnel. PI: Egans, M (U Arkansas) |
| 2019-2022 | Univ of California-Office of the President “Investigating fundamental gaps in Valley Fever research” Role: Co-PI. PI: Anita Sil (UCSF) and Co-PIs at UC Berkeley, UC Davis, UC Merced, UC San Diego |
| 2019-2025 | Canadian Institute For Advanced Research. Fellowship “Fungal Kingdom: Threats and Opportunities” Role: CIFAR Fellow. PI/Directors: L Cowen and J Heitman |
| 2020-2023 | Gordon and Betty Moore Foundation “New Tools for Advancing Model Systems in Aquatic Symbiosis” Role: Co-PI. PI: Lillian Fritz-Laylin (U Mass-Amherst). With Co-PI Tim James (U Michigan) |
| 2020-2022 | California Conservation Genomics Project (subproject) “Landscape and Population Genomics of the lichen <i>Acarospora socialis</i> in California” Role: PI. |
| 2020-2023 | California Department of Agriculture / Glassywinged Sharptshooter Board “CRISPR-mediated genome modification of <i>Homalodisca vitripennis</i> for the genetic control of Pierce’s disease” Role: Co-PI. PI Peter Atkinson, UCR |
| 2020-2025 | USDA-NIFA, Emergency Citrus Disease Research and Extension “CAP: Combining Cultural And Genetic Approaches For Grove Success To Unravel And Enhance Resistance/Tolerance To Huanglongbing.” Role: Co-PI. PI Caroline Roper, UCR |
| 2021-2023 | Canadian Institute For Advanced Research. Catalyst Award “Exploring the extended phenotypes of BdDV-1, a DNA mycovirus associated with enzootic strains of amphibian chytridiomycosis” Role: Co-PI. PI: Tim James, U Michigan; Co-PI: Lillian Fritz-Laylin, U Mass Amherst; Co-PI |

2022-2024 Mat Fisher, Imperial College (UK)
Canadian Institute For Advanced Research. Catalyst Award
“Discovering and describing fungi from deep biosphere environments”
Role: PI. Co-PI: Tim James, U Michigan

2022-2026 National Science Foundation. EF-2125066.
“Collaborative Research: MIM: Gut-inhabiting fungi influence structure and function of herptile microbiomes through horizontal gene transfer and novel metabolic function”
Role: PI. Collaborative linked award with 3 other PIs: J Spatafora & K McPhail (Oregon State), D Walker (Middle Tennessee State) <https://herptilemicrobiomes.org/>

2022-2026 National Science Foundation. IOS-2134912
“Research-PGR: Impact of transposable element bursts on the rice genome and epigenome.”
Role: Co-I. PI: SR Wessler (UC Riverside). Co-I: R Schmitz (U Georgia), K Ostivek (UC Riverside), J Burnette (UC Riverside)

2022-2026 National Science Foundation. DBI-2215705
“Research Infrastructure: MRI: Acquisition of a Big Data HPC Cluster for Interdisciplinary Research and Training.”
Role: Co-I. PI: Thomas Girke (UC Riverside). Co-I: Wenxiu Ma, Mark Alber, Adam Godzik (UC Riverside)

2022-2027 National Science Foundation. IOS-2141858
“CAREER: Dissecting the molecular regulation of septin-mediated plant invasion by the blast fungus *Magnaporthe oryzae*”
Role: Senior Personnel. PI: Martin Egan (U Arkansas)

Completed support

2010-2013 Burroughs Wellcome Fund.
“FungiDB: A Pan Fungal Genome Database”.
Role: Co-I. PI: DS Roos (U Pennsylvania)

2011-2012 UC Riverside, Chancellor’s Strategic Investment Funds.
“Coelomomyces Genomics for Mosquito Vector Control”
Role: Co-I. PI: B Federici. Co-I: A Ray (UC Riverside)

2013-2014 UC Riverside, Office of Research Strategic Investment Funds.
“High-throughput synthetic biology for natural products discovery”
Role: Co-I. PI: K Borkovich. Co-I: C Larive (UC Riverside)

2013-2014 National Institutes of Health - 1-R03-AI105636-01.
“Annotation of *Cryptococcus* genomes by comprehensive curation of published literature”
Role: PI. Co-I G Sherlock (Stanford)

2011-2014 Alfred P. Sloan Foundation.
“MoBe DAC: A data coordinating center for the Sloan Indoor Environment Metagenomic Project - Fungal resources”.
Role: PI. Linked grants with F Meyer (U Chicago/ANL), R Knight (U Colorado), M Sogin (Marine Biological Lab).

2014-2015 National Science Foundation. DBI-1429826.
“MRI: Acquisition of a Big Data Compute Cluster for Interdisciplinary Research” Role: Co PI. PI T Girke. Co-Is J Bailey-Serres, M Allen, and S Lonardi (UCR)

2014-2017 National Institutes of Health - 1-R01-GM108492-01.
“Dynamics of bacterial-fungal interactions in chronic lung infections”
Role: Co-I. PI: D Hogan (Dartmouth)

2011-2016 W.M. Keck Foundation. (No Cost Extension thru 2018)
”New Active Transposable Elements for Mosquito Genetics.”
Role: Co-I. PI: SR Wessler (UC Riverside). Co-I: P Atkinson (UC Riverside).

2017 Burroughs Wellcome Fund.
”Meeting grant to support Fungal Cell Wall (FCW2017) Conference in Ensenada, Mexico”

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| 2016-2019 | <p>Role: PI.</p> <p>National Science Foundation. DEB-1557110. (No Cost Ext thru 04/2020)</p> <p>“Collaborative Research: Phylogenomics and evolutionary history of the anaerobic fungal group, Neocallimastigomycota”</p> |
| 2011-2017 | <p>Role: PI. Collaborative linked award PI: N Youssef (Oklahoma State)</p> <p>National Science Foundation. IOS-1027542. (No Cost Ext thru 02/2021)</p> <p>“CPGS: Genome-wide impact of <i>mPing</i> transposition on rice phenotypic diversity.”</p> <p>Role: Co-I. PI: SR Wessler (UC Riverside).</p> <p>http://dynamiterice.org</p> |
| 2015-2018 | <p>National Science Foundation. GO Life DEB-1441715. (No Cost Ext thru 08/2020)</p> <p>“Collaborative Research: The Zygomycetes Genealogy of Life (ZyGoLife)- the conundrum of Kingdom Fungi”</p> <p>Role: PI. Collaborative linked award with 3 other PIs and 12 collaborating labs: J Spatafora (Oregon State), TY James (U Michigan), R Robertson (Arizona State)</p> <p>http://zygolife.org</p> |
| 2017-2020 | <p>Univ of California-Office of the President, MRPI.</p> <p>“UC Valley Fever Research Initiative”</p> |
| 2019-2020 | <p>Role: Co-PI. PI: Anita Sil (UCSF) and Co-PIs at UC Berkeley, UC Merced, UC San Diego</p> <p>City of Hope / Univ of California-Riverside</p> <p>“Antifungal drug resistance in Southern California: Discovery of novel mechanisms by genomics and proteomics.”</p> |
| 2020-2021 | <p>Role: PI with Co-PIs M Kalkum and S Dadwal at City of Hope Hospital</p> <p>Canadian Institute For Advanced Research</p> <p>“Pilot investigation of avian-origin <i>Aspergillus fumigatus</i> infections in the United States”</p> |
| 2020 | <p>Role: PI. Co-PI: David Blehert, National Wildlife Health Center, USGS</p> <p>Burroughs Wellcome Fund.</p> <p>”Meeting grant to support 2022 Fungal Cellular and Molecular Biology Gordon Research Conference”</p> |
| 2020-2021 | <p>Role: PI.</p> <p>USDA-ANIMAL AND PLANT HEALTH INSPECTION SERVICE</p> <p>“Tracking seasonal changes of endophytic communities in <i>Fusarium</i> dieback - Invasive shot hole borers host trees in California.”</p> |
| 2022 | <p>Role: Co-I. PI Akif Eskalen, UC Davis</p> <p>National Science Foundation. MCB-2227426</p> <p>”Meeting grant to support Fungal Cellular and Molecular Biology Gordon Research Conference 2022”</p> <p>Role: PI.</p> |

Service:

University and Departmental

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|----------------------|--|
| 2020-2022 | Division Chair, Riverside Division of the University of California Academic Senate |
| 2018–2020 | Chair, UC Riverside Graduate Council and member of Senate Executive Council |
| 2017-2018 | Member, UC Riverside Graduate Council |
| 2015–2020 | Director, Microbiology Graduate Program (except Sabbatical 2016-17) |
| 2014–2015, 2018–2020 | Graduate Advisor, Microbiology Graduate Program |
| 2015–2016, 2017–2018 | Admissions Advisor, Microbiology Graduate Program |

Editorial Boards

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| 2021– | Editorial Board, Annual Reviews of Microbiology |
| 2019– | Associate Editor, Genome Biology & Evolution |
| 2019– | Associate Editor, Mycologia |

2018– Senior Editor, Microbial Resource Announcements
 2018– Associate Editor, Genetics
 2016– Editorial Board, Current Opinion in Microbiology
 2015–2019 Associate Editor, Microbial Genomics
 2014– Associate Editor, Fungal Genetics & Biology
 2013,2015 Guest Associate Editor, PLoS Genetics
 2013 Guest Associate Editor, Mycologia
 2011–2016 Faculty Member in Microbial Genetics & Genomics, Faculty of 1000
 2010–2015 Editorial Board, Eukaryotic Cell.
 2009–2016 Section Editor, PLoS One.
 2007–2016 Academic Editor, PLoS One.

Professional Service

2021– Scientific Advisory Board, Sincarne.
 2018–2022 Co-Chair (2020, moved to 2022) of Cellular and Molecular Fungal Biology, Gordon Research Conference; Co-Vice Chair (2018).
 2017–2020 Karling Lecture Committee, Mycologia Society of America (Chair 2019-2020)
 2018-2021 Councilor for Cell Biology & Physiology. Mycological Society of America.
 2014–2018 Neurospora Policy Committee, Co-Organized 2016 Neurospora conference
 2013–2019 Fungal Genetics Policy Committee
 2012– Scientific advisory board, Plant Microbe Interactions - DOE Science Focus Area, Oak Ridge National Laboratory
 2012–2018 Scientific advisory board, WormBase
 2012–2015 Scientific advisory board, Ensembl Genomes
 2010–2012 Councilor for Genetics & Molecular Biology, Mycological Society of America
 2009–2010 Advisory Board for Genomic Encyclopedia of Fungi, Joint Genome Institute, US Department of Energy.
 2009–2010 Pan-Fungal Database Steering Committee for Burroughs Wellcome Fund.
 2007–2009 Scientific advisory board NSF Computer Science Education Revitalization (PI Owen Astrachan, Duke University)
 2005–2008 Scientific advisory committee Information Technology and Computing infrastructure, National Center for Evolutionary Synthesis (NESCent).
 2005–2011 President and Board Member [2005–2014], Open Bioinformatics Foundation <http://www.open-bio.org/>
 2001–2015 Co-Project leader, BioPerl. <http://www.bioperl.org/>

Membership in Professional Societies:

2015– American Association for the Advancement of Science
 2007– Mycological Society of America
 2007– American Society for Microbiology, Fellow (2020)
 2004– Genetics Society of America
 2004– Society for Molecular Biology and Evolution
 2002– Open Bioinformatics Foundation
 2002– International Society for Computational Biology

Graduate Students:

2009–2013 PhD student, Divya Sain. Genetics, Genomics, & Bioinformatics.
 Current: Bioinformatics Scientist at Ambry Genetics.
 2010–2012 MS student, Yi (Zoe) Zhou. Genetics, Genomics, & Bioinformatics.
 Current: Biostatistician at dMed Biopharmaceutical Co.
 2010–2014 PhD student, Yizhou Wang. Plant Biology.

Current: Research Bioinformatician and Associate Director at Applied Genomics, Computation & Translational Core, Cedars-Sinai.

2011–2015 PhD student, Steven Ahrendt. Genetics, Genomics, & Bioinformatics.
Current: Data Scientist at DOE Joint Genome Institute.

2016–2019 PhD Student, Derreck Carter-House. Plant Pathology.
Current: Research Scientist, Clear Labs

2015–2021 MS Student, Sawyer Masonjones. Genetics, Genomics, & Bioinformatics

2015–2021 PhD Student, Nuttapon Pombubpa. Plant Pathology.
Current: Assistant Professor, Chulalongkorn, Bangkok, THAILAND

2016–2022 PhD Student, Jesús Peña, Microbiology

2017– PhD Student, Tania Kurbessoian, Microbiology

2017– PhD Student, Julia Adams, Plant Biology

2020– PhD Student, Talieh Ostovar, Evolutionary Biology, San Diego State - UCR Joint Doctoral Program

2021– PhD Student, Mark Yacoub, Microbiology

2021– PhD Student, Cheng-Hung Tsai, Genetics, Genomics, & Bioinformatics

2022– PhD Student, Jessica Wu-Woods, Microbiology

2022– PhD Student, Leila Shadmani, Microbiology

Postdoctoral Fellows:

2010–2011 John Abramyan, Ph.D.
Current: Assistant Professor, Univ of Michigan-Dearborn

2011–2014 Sofia Robb, Ph.D.
Current: Genomics Scientist at Stowers Institute.

2012–2014 Brad Cavinder, Ph.D.
Current: Research Associate at Michigan State University

2012–2015 Peng Liu, Ph.D.
Current: Research Associate, Yangzhou University, CHINA

2013–2019 Jinfeng Chen, Ph.D.
Current: Assistant Professor, Institute of Zoology of Chinese Academy of Science; 1st position: Staff Scientist, City of Hope, CA.

2013–2015 Ousmane Cissé, Ph.D. - Swiss National Science Foundation Fellow.
Current: Staff Scientist at Critical Care Department, NIH Clinical Center.

2014–2015 Rodrigo Olarte, Ph.D.
Current: NSF Postdoctoral Fellow at Univ of Minnesota.

2017–19 Yan Wang, Ph.D.
Current: Assistant Professor, University of Toronto-Scarborough.

2019–2021 Lotus Lofgren, Ph.D.
Current: Postdoctoral Researcher, Duke University.

2020–2021 Ying Sun, Ph.D.
Current: Postdoctoral Researcher at Salk Institute

2020– Cassie Ettinger, Ph.D.

2020– Kelsey Aadland, Ph.D.

2023– Claudia Coleine, Ph.D. - Marie Curie Fellow.

Visitors:

2010–2013 (4, 2-3 month vists) Anastasia Gioti, PhD, Dept of Evolution Biology, Uppsala University, SWE-DEN

2010 Suzanne Joneson, PhD, Department of Biology, University of Idaho

2011 Edgar Medina Tovar, MSc Mycology and Phytopathology Lab, Universidad de Los Andes, Bogota, COLOMBIA

2012 Andrii Gryganski, PhD, Visiting Researcher, Duke University
 2013–2014 Venkatesh Muktali, PhD, FungiDB Project, Visiting Research Fellow, Oregon State University
 2014 Raúl Castanera Andrés, Visiting Graduate Student, Universidad Pública de Navarra, Pamplona, SPAIN
 2015 Natalie Vande Pol, Visiting Graduate Student (Bonito Lab), Michigan State University
 2015–2016 Zhinquan Song, Visiting Graduate Student (Guangyi Wang Lab), Tianjin University, CHINA
 2015 John Yinka Odebode, Visiting Graduate Student on a West African Research Association Fellowship, University of Lagos, NIGERIA.
 2015 Marco Marconi, Visiting Graduate Student, Universidad Politécnica de Madrid, Madrid, SPAIN
 2015–2016 Claudia Coleine, Visiting Graduate Student, Università degli Studi della Tuscia, Viterbo, ITALY
 2017 Jane Lind Nybo, Visiting Graduate Student, Technical University of Denmark, Copenhagen, DENMARK
 2019 Guillermo Vidal-Diez de Ulzurrun, Visiting Postdoc scientist, IMB, Academia Sinica, Taipei, Taiwan
 2019–2020 Felipe Salgado, Federal University of Rio de Janeiro, BRAZIL.
 2020–2021 Omar Valencia, Volunteer.
 2021–2022 Jaehyuk Choi, Incheon National University, SOUTH KOREA.
 2022–2023 Xinzhan Liu, Institute of Microbiology, Chinese Academy of Sciences, CHINA.

Staff:

2011–2012 Daniel Borcharding, Programmer (FungiDB).
 Current: Senior Software Build Engineer, Apple, Inc.
 2011–2013 Raghuraman Ramamurthy, Programmer (FungiDB).
 Current: Lead Bioinformatician - Natera.
 2012–2014 Edward Liaw, Programmer (FungiDB).
 Current: Bioinformatics Engineer - Twist Bioscience.
 2012–2014 Greg Gu, Programm (FungiDB).
 Current: Chief Engineer - PH Engineering Corp.
 2013–2014 Venkatesh Muktali, Bioinformatics Scientist (FungiDB).
 Current: Biotech and Healthcare Product Management - Twist Bioscience.
 2017–2018 Jericho Ortanez, Junior Specialist. Current: Graduate Student, UC Riverside.
 2021 Omar Valencia, Junior Specialist.
 2022– Sadikshya Sharma, Assistant Specialist.

Teaching:

2010,2012 BIO5C - Introductory Ecology & Evolution
 2011 BIO20 - The Dynamic Genome - Research module for *Neurospora* research
 2011,2013 GEN240B - Tools for Bioinformatics and Genome Analysis
 2015 MCBL124 - Microbial Pathogenesis
 2011–2016 MCBL211 - Microbial Ecology
 2012–2015 MCBL202 - Microbial Pathogenesis & Physiology
 2012–Present GEN220 - Computational Analysis of High Throughput Biological Data <http://biodataprog.github.io/>
 2016–2020 BIO119 - Introduction to Genomics and Bioinformatics

Undergraduate Researchers:

2010– Sponsor for summer research students in MARCU, STEM, and CAMP programs at UCR.
 2010–2012 Jessica De Anda, UCR. STEM grant participant (2010); MARC USTAR student 2010-12. Current: Career Development Coordinator at UC Berkeley School of Buisiness
 2010–2011 Annie Nguyen, UCR.

2011–2012 Carlos Rojas Torres, UCR. CAMP (2011); lab researcher. Current: Gilead Pharmaceuticals.
 2011 Ramy Wissa, UCR. Pre-MARC USTAR Summer student.
 2011–2012 Lorena Rivera, UCR. Pre-MARC USTAR student (2011); lab researcher, CNAS Dean's Fellow
 Summer Undergraduate Research (Summer 2012)
 2012–2014 Erum Khan, UCR.
 2012–2014 Sapphire Ear, UCR. Current: MD student at UCSF
 2012–2014 Megna Tiwari, UCR. Current: PhD student at Univ of Georgia
 2013–2014 Dylan McVay, UCR.
 2013–2016 Na Jeong, UCR, Summer RISE Scholar (2013) and lab researcher
 2014 Spencer Swansen, Summer NSF REU student (Seattle Pacific University)
 2015–2017 Justin Shen, UCR.
 2015–2016 Serena Choi, UCR.
 2015–2017 Dillon McDonald, UCR Summer HSI-STEM (2015) and lab researcher. Current: DO Student,
 Western University of Health Sciences in Oregon
 2015 Christina Uriarte, UCR. Pre-MARC USTAR student.
 2015–2017 Jericho Ortanez, UCR. Current: PhD student UCR Microbiology
 2015–2016 Leandra Ibrahim, UCR.
 2015–2017 Deane Kim, UCR.
 2016–2017 Georgiy Smirnov, UCR.
 2016–2018 Meng (Josh) Chung, UCR. Current: Dentistry Student
 2017–2019 Estefania Caldera, UCR.
 2018 Lily Bautista, UCR.
 2018–2020 Renata Haro, UCR.
 2018–2020 Skylar McDonald, UCR.
 2019 Saisuki Putumbaka, The College of New Jersey, Summer REU student. Current: PhD student
 at Univ of Georgia
 2019–2020 Nicole Leung, UCR.
 2020–2021 Dionne Martin, UCR - won IIGB Undergraduate Research Award. Next: PhD student at Univ
 of Georgia

Thesis/Dissertation committees:

2011 Sourav Roy, PhD, Genetics, Genomics & Bioinformatics
 Yi Zhou, MS, Genetics, Genomics & Bioinformatics *
 2012 Andrew Defries, PhD, Plant Sciences
 2013 Gilbert Uribe, MS, Plant Pathology
 Divya Sain, PhD, Genetics, Genomics & Bioinformatics *
 2014 Yizhou Wang, PhD, Plant Sciences *
 Zhigang Wu, PhD, Genetics, Genomics & Bioinformatics
 2015 Presha Shah, PhD, Biochemistry
 Ming Wang, PhD, Plant Pathology
 Steven Ahrendt, PhD, Genetics, Genomics & Bioinformatics *
 Ilva Cabrera, PhD, Genetics, Genomics & Bioinformatics
 Jinfeng Lu, PhD, Genetics, Genomics & Bioinformatics
 James Ricci, MS, Entomology
 2016 Ryan Arvidson, PhD, Biochemistry
 Francis Na, MS, Microbiology
 Jishu Ha, PhD, Genetics, Genomics & Bioinformatics
 Arit Gosh, PhD, Genetics, Genomics & Bioinformatics
 Kelsey Gano, PhD, Microbiology
 Kun Liu, PhD, Plant Biology
 2017 Raissa Green, PhD, Genetics, Genomics & Bioinformatics

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| | Amelia Lindsey, PhD, Entomology |
| | Patrick Schriener, PhD, Genetics, Genomics & Bioinformatics |
| | Eric Smith, PhD, Genetics, Genomics & Bioinformatics |
| | Katherine Picard, PhD, Univ Prog in Genetics & Genomics (Duke University) |
| | Eric Gordon, PhD, Entomology |
| 2018 | Cynthia Dick, PhD, EEOB |
| | Dan Vanderpool, PhD, Biology (University of Montana) |
| | Steven Bolaris, PhD, Genetics, Genomics & Bioinformatics △ |
| 2019 | Joseph Carrillo, PhD, Plant Pathology △ |
| | Dinusha Maheepala Mudalige, PhD, Plant Biology |
| | Aaron Robinson, PhD, Biology (University of New Mexico) |
| | Courtney Collins, PhD, Plant Biology |
| | Edgar Medina, PhD, Univ Prog in Genetics & Genomics (Duke University) |
| | Lluvia Vargas, PhD, Microbiología (CICESE, MEXICO) |
| | Derreck Carter-House, PhD, Plant Pathology ★ |
| | Nathan Robinett, Evolutionary Biology, Joint Doctoral Prog. SDSU-UCR ○ |
| 2020 | Andrea Vu, PhD, Plant Pathology |
| | Nichole Ginnan, PhD, Plant Pathology |
| | Alex Rajewski, PhD, Plant Biology |
| 2021 | Nuttapon Pombubpa, PhD, Plant Pathology ★ |
| | Caleb Hubbard, PhD, Medical and Veterinary Entomology |
| | Sawyer Masonjones, MS, Genetics, Genomics & Bioinformatics ★ |
| | Markus Hiltunen, PhD, Evolutionary Biology, Uppsala University (external opponent) |
| 2022 | Yi Huang, PhD, Plant Biology |
| | Jesús Peña, PhD, Microbiology ★ |
| | Hannah Schulman, PhD, Microbiology |
| | Christopher Fiscus, PhD, Genetics, Genomics & Bioinformatics |
| | Celia Xi, PhD, Plant Biology |
| ongoing | Julia Adams, Plant Biology ★ |
| | Tania Kurbessoian, Microbiology ★ |
| | Beth Peacock, Plant Pathology |
| | Glen Morrison, Plant Biology |
| | Yi Huang, Plant Biology |
| | Christopher Ficus, GGB |
| | Glen Morrison, Plant Biology |
| | Talieh Ostovar, Program in Evolutionary Biology SDSU-UCR ★ |
| | Fabiola Pulido-Chavez, Plant Pathology |
| | Dylan Enright, Microbiology |
| | Sarah Thorwall, Chemical and Environmental Engineering |
| | Samantha (Smith) Standring, Entomology |
| | Jericho Ortáñez, Microbiology |
| | Peggy Brady, EEOB |
| | Isaac Diaz, Genetics, Genomics, & Bioinformatics |
| | Aidan Shands, Plant Pathology |
| | Tamsen Dunn, Program in Evolutionary Biology SDSU-UCR |
| | Angela Buehlman, Plant Biology |
| | Colin Todd, Plant Biology |
| | Mark Yacoub, Microbiology ★ |
| | Jessica Maccaro, Entomology |

★ Stajich is Dissertation advisor or △ co-advisor / substitute ○ Withdrawn from program

Invited Seminars and conference presentations (2015–Present)

- 2022
 - CIFAR Fungal Kingdom: Threats & Opportunities, Presenter for Feb and March Meetings (Virtual)
 - Keynote speaker, Bark Beetle Mycobiome Research community meeting (Virtual)
 - Department Seminar, Scripps Institution of Oceanography, UCSD (Virtual)
 - Mycological Society of Japan Annual Meeting (Virtual)
- 2021
 - CIFAR Fungal Kingdom: Threats & Opportunities, Presenter for Feb and March Meetings
 - University of Georgia, Guest lecture for undergraduate seminar course "Genome Biology Across the Tree of Life" (Virtual)
 - Rochester Institute of Technology, Georgia Gosnell Seminar Series (Virtual)
 - University of Delaware, Microbiology Graduate Program (Virtual)
 - Canadian Fungal Network Conference, Plenary Speaker (Virtual)
 - Botany / Mycological Society of America 2021 meeting (Virtual)
- 2020
 - Microbiology and Infectious Disease Grad Student retreat speaker, Univ Texas Health Sciences, Houston, TX (postponed)
- 2019
 - Phylogenomics Workshop, Cesky Krumlov, Czech Republic
 - Middle Tennessee State University, Murfreesboro, TN
 - Rosie Perez Memorial Seminar, North Carolina State University, Raleigh, NC
 - University of North Carolina, Chapel Hill, NC
 - California State University, Northridge, CA
- 2018
 - UC Riverside Data Science Series. Riverside, CA
 - University of Nebraska-Lincoln, Lincoln, NE
 - Creighton University, Omaha, NE
 - Marine Fungi Workshop. Marine Biological Lab, Woods Hole, MA.
 - 11th International Mycological Congress. San Juan, Puerto Rico
 - CIFAR workshop "Microbial Pathogens in the Fungal Kingdom". Toronto, Ontario, CANADA
- 2017
 - Oregon State University. Corvallis, OR
 - 29th Fungal Genetics Conference. *Plenary Speaker*. Pacific Grove, CA.
 - Oomycete Molecular Genetics Network. *Plenary Speaker*. Pacific Grove, CA
 - Population Genomics of Oomycete and Fungal Pathogens. Ascona, Switzerland
 - American Society for Microbiology Microbe Meeting. New Orleans, LA
 - FASEB Microbial Pathogenesis. Aspen, CO.
 - Mycological Society of America 2017 Meeting. Athens, GA
 - American Academy of Microbiology Colloquium on Fungal Pathogenesis. Washington, DC
 - Fungal Cell Wall Conference. Ensenada, Mexico
 - Whetzel-Westcott-Dimock Special Lecturer, Cornell University, Ithaca, NY

September 19, 2022