Jason E. Stajich

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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 Cali-
	fornia 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., Lehväslaiho, 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., **Sta-jich**, 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 metallopeptidases 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., Ahrèn, 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., Rehmeyer, 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.
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- 35. Strandberg, R., Nygren, K., Menkis, A., James, T. Y., Wik, L., **Stajich**, J. E., and Johannesson, H. 2010. Conflict between reproductive gene trees and species phylogeny among outcrossing members of the filamentous ascomycete genus *Neurospora*. *Fungal Genetics & Biology* 11(7):869–878. doi:10.1016/j.fgb.2010.06.008.

- 36. Lévesque, C. A., Brouwer, H., Cano, L., Hamilton, J. P., Holt, C., Huitema, E., Raffaele, S., Robideau, G. P., Thines, M., Win, J., Zerillo, M. M., Beakes, G. W., Boore, J. L., Busam, D., Dumas, B., Ferriera, S., Fuerstenberg, S. I., Gachon, C. M., Gaulin, E., Govers, F., Grenville-Briggs, L., Horner, N., Hostetler, J., Jiang, R. H., Johnson, J., Krajaejun, T., Lin, H., Meijer, H. J., Moore, B., Morris, P., Phuntmart, V., Puiu, D., Shetty, J., Stajich, J. E., Tripathy, S., Wawra, S., van West, P., Whitty, B. R., Coutinho, P. M., Henrissat, B., Martin, F., Thomas, P. D., Tyler, B. M., De Vries, R. P., Kamoun, S., Yandell, M., Tisserat, N., and Buell, C. R. 2010. Genome sequence of the necrotrophic plant pathogen, *Pythium ultimum*, reveals original pathogenicity mechanisms and effector repertoire. *Genome Biol* 11(7):R173. doi:10.1186/gb-2010-11-7-r73.
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- 38. Burns, C., **Stajich**, J. E., Rechtsteiner, A., Hanlon, S. E., Wilke, S. K., Palmerini, H. J., Savytskyy, O. P., Gathman, A. C., Lilly, W. W., Lieb, J. D., Zolan, M. E., and Pukkila, P. J. 2010. Analysis of the basidiomycete *Coprinopsis cinerea* reveals conservation of the core meiotic expression program over half a billion years of evolution. *PLoS Genetics* 6(9):e1001135. doi:10.1371/journal.pgen. 1001135.
- 39. D'Souza, C. A., Kronstad, J. W., Taylor, G., Warren, R., Yuen, M., Hu, G., Jung, W. H., Sham, A., Kidd, S. E., Tangen, K., Lee, N., Zeilmaker, T., Sawkins, J., McVicker, G., Shah, S., Gnerre, S., Griggs, A., Zeng, Q., Bartlett, K., Li, W., Wang, X., Heitman, J., **Stajich**, J. E., Fraser, J. A., Meyer, W., Carter, D., Schein, J., Krzywinski, M., Kwon-Chung, K. J., Varma, A., Wang, J., Brunham, R., Fyfe, M., Ouellette, B. F. F., Siddiqui, A., Marra, M., Jones, S., Holt, R., Birren, B. W., Galagan, J. E., and Cuomo, C. A. 2011. Genome variation in *Cryptococcus gattii*, an emerging pathogen of immunocompetent hosts. *MBio* 2(1):e00342–10. doi:10.1128/mBio.00342-10.
- 40. Ellison, C. E., **Stajich**, J. E., Jacobson, D. J., Natvig, D. O., Lapidus, A., Foster, B., Aerts, A., Riley, R., Lindquist, E. A., Grigoriev, I. V., and Taylor, J. W. 2011. Massive changes in genome architecture accompany the transition to self-fertility in the filamentous fungus *Neurospora tetrasperma*. *Genetics* 189(1):55–69. doi:10.1534/genetics.111.130690.
- 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.
- 42. **Stajich**, J. E., Harris, T., Brunk, B. P., Brestelli, J., Fischer, S., Harb, O. S., Kissinger, J. C., Li, W., Nayak, V., Pinney, D. F., Stoeckert, C. J., Jr, and Roos, D. S. 2012. FungiDB: an integrated functional genomics database for fungi. *Nucleic Acids Res* 40(D1):D675–D681. doi:10.1093/nar/gkr918.
- 43. Gioti, A., Mushegian, A. A., Strandberg, R., **Stajich**, J. E., and Johannesson, H. 2012. Unidirectional evolutionary transitions in fungal mating systems and the role of transposable elements. *Mol Biol Evol* 29(10):3215–3226. doi:10.1093/molbev/mss132.
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Commentaries and Book Reviews

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Essays

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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

Github http://github.com/1KFG - 1000 Fungal genomes project

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

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 Aspergillus fumigatus 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 Filamen-
	tous Fungus" Role: Senior Personnel. PI: Egans, M (U Arkansas)
2019-2022	Univ of California-Office of the President
2017 2022	"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"
0000 0000	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"
2020-2025	Role: Co-PI. PI Peter Atkinson, UCR USDA-NIFA, Emergency Citrus Disease Research and Extension
2020-2025	"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
0000 0004	Mat Fisher, Imperial College (UK)
2022-2024	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.
2022 2020	"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).
2022-2026	Riverside), J Burnette (UC Riverside) National Science Foundation. DBI-2215705
<u> </u>	"Research Infrastructure: MRI: Acquisition of a Big Data HPC Cluster for Interdisciplinary
	Research and Training."

2022-2023	National Science Foundation, 103-2141030
	"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 sup	port
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 <i>Cryptococcus</i> 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.
2011 2010	"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.
_01,	"Meeting grant to support Fungal Cell Wall (FCW2017) Conference in Ensenada, Mexico"
	Role: PI.
2016-2019	National Science Foundation. DEB-1557110. (No Cost Ext thru 04/2020)
_010 _01,	"Collaborative Research: Phylogenomics and evolutionary history of the anaerobic fungal
	group, Neocallimastigomycota"
	Role: PI. Collaborative linked award PI: N Youssef (Oklahoma State)
2011-2017	National Science Foundation. IOS-1027542. (No Cost Ext thru 02/2021)
2011 2017	"CPGS: Genome-wide impact of <i>mPing</i> transposition on rice phenotypic diversity."
	Role: Co-I. PI: SR Wessler (UC Riverside).
	http://dynamiterice.org
2015-2018	National Science Foundation. GO Life DEB-1441715. (No Cost Ext thru 08/2020)
2010 2010	"Collaborative Research: The Zygomycetes Genealogy of Life (ZyGoLife)- the conundrum
	of Kingdom Fungi"
	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)
	http://zygolife.org
2017-2020	Univ of California-Office of the President, MRPI.
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Role: Co-I. PI: Thomas Girke (UC Riverside). Co-I: Wenxiu Ma, Mark Alber, Adam Godzik (UC Riverside)

National Science Foundation. IOS-2141858

2022-2023

"UC Valley Fever Research Initiative"

Role: Co-PI. PI: Anita Sil (UCSF) and Co-PIs at UC Berkeley, UC Merced, UC San Diego

2019-2020 City of Hope / Univ of California-Riverside

"Antifungal drug resistance in Southern California: Discovery of novel mechanisms by

genomics and proteomics."

Role: PI with Co-PIs M Kalkum and S Dadwal at City of Hope Hospital

2020-2021 Canadian Institute For Advanced Research

"Pilot investigation of avian-origin Aspergillus fumigatus infections in the United States"

Role: PI. Co-PI: David Blehert, National Wildlife Health Center, USGS

2020 Burroughs Wellcome Fund.

"Meeting grant to support 2022 Fungal Cellular and Molecular Biology Gordon Research

Conference" Role: PI.

2020-2021 USDA-ANIMAL AND PLANT HEALTH INSPECTION SERVICE

"Tracking seasonal changes of endophytic communities in Fusarium dieback - Invasive shot

hole borers host trees in California." Role: Co-I. PI Akif Eskalen, UC Davis

2022 National Science Foundation. MCB-2227426

"Meeting grant to support Fungal Cellular and Molecular Biology Gordon Research Con-

ference 2022" Role: PL

Service:

University and Departmental

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

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 2018-2021	Karling Lecture Committee, Mycologia Society of America (Chair 2019-2020) 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 Welcome 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 Pro-
	gram
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	, e
	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-Scarbourgh.
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:

VISILOIS.	
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 Moktali, 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 Assocation Fellow-
	ship, University of Lagos, NIGERIA.
2015	Marco Marconi, Visiting Graduate Student, Universidad Politécnica de Madrid, Madrid, SPAIN
2015-2016	Claudia Coleine, Visiting Graduate Student, Universitá 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 Borcherding, 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. Greg Gu, Programm (FungiDB). 2012-2014 Current: Chief Engineer - PH Engineering Corp. 2013-2014 Venkatesh Moktali, Bioinformatics Scientist (FungiDB). Current: Biotech and Healthcare Product Management - Twist Bioscience. 2017-2018 Jericho Ortanez, Junior Specialist. Current: Graduate Student, UC Riverside. Omar Valencia, Junior Specialist. 2021 2022-Sadikshya Sharma, Assistant Specialist. **Teaching:** 2010,2012 BIO5C - Introductory Ecology & Evolution 2011 BIO20 - The Dynamic Genome - Research module for Neurospora research GEN240B - Tools for Bioinformatics and Genome Analysis 2011,2013 MCBL124 - Microbial Pathogenesis 2015 2011–2016 MCBL211 - Microbial Ecology MCBL202 - Microbial Pathogenesis & Physiology 2012-2015 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. Jessica De Anda, UCR. STEM grant participant (2010); MARC USTAR student 2010-12. Cur-2010-2012 rent: Career Development Coordinator at UC Berkeley School of Buisiness 2010-2011 Annie Nguyen, UCR. Carlos Rojas Torres, UCR. CAMP (2011); lab researcher. Current: Gilead Pharmaceuticals. 2011-2012 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. Sapphire Ear, UCR. Current: MD student at UCSF 2012-2014 2012-2014 Megna Tiwari, UCR. Current: PhD student at Univ of Georgia Dvlan McVav. UCR. 2013-2014 Na Jeong, UCR, Summer RISE Scholar (2013) and lab researcher 2013-2016 Spencer Swansen, Summer NSF REU student (Seattle Pacific University) 2014 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 Christina Uriarte, UCR. Pre-MARC USTAR student. 2015

Jericho Ortanez, UCR. Current: PhD student UCR Microbiology

2015-2017

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:

Thesis, Dissertation committees.		
Sourav Roy, PhD, Genetics, Genomics & Bioinformatics		
Yi Zhou, MS, Genetics, Genomics & Bioinformatics ★		
Andrew Defries, PhD, Plant Sciences		
Gilbert Uribe, MS, Plant Pathology		
Divya Sain, PhD, Genetics, Genomics & Bioinformatics ★		
Yizhou Wang, PhD, Plant Sciences ⋆		
Zhigang Wu, PhD, Genetics, Genomics & Bioinformatics		
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		
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		
Raissa Green, PhD, Genetics, Genomics & Bioinformatics		
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		
Cynthia Dick, PhD, EEOB		
Dan Vanderpool, PhD, Biology (University of Montana)		
Steven Bolaris, PhD, Genetics, Genomics & Bioinformatics \triangle		
Joseph Carrillo, PhD, Plant Pathology \triangle		
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 \circ		

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 ★ Sarah Thorwall, Chemical and Environmental Engineering

Samantha (Smith) Standring, Entomology

Jericho Ortanez, 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

 \star Stajich is Dissertation advisor or \triangle co-advisor / substitute \circ Withdrawn from program

Invited Seminars and conference presentations (2015–Present)

- 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"
 - · Rochester Institute of Technology, Georgia Gosnell Seminar Series
 - · Unversity of Deleware, Microbiology Graduate Program
 - · Canadian Fungal Network Conference, Plenary Speaker
- 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
- 2016 · Mycological Society of America 2016 Meeting. Berkeley, CA.
 - · CIFAR Integrated Microbial Biodiversity Program. Toronto, ON, CANADA.
 - · 13th European Fungal Genetics Conference. Paris, France. Plenary Speaker
 - · Neurospora Conference. Asilomar Conference Center, Pacific Grove, CA.
 - · Duke University, Durham, NC.
 - · University of California, Davis, CA.
 - · University of Exeter. United Kingdom.
- 2015 · EMBO Conference: Genomic complexity and diversity of eukaryotes. Sant Feliu de Guixols, SPAIN.
 - \cdot XI CONGRESO NATIONAL DE MICOLOGIA, Sociedad Mexicana de Micologia. Merida, Yucatan, MEXICO. Plenary Speaker
 - · University of Arizona, Tucson, AZ.
 - · Eighth International Conference on Mycorrhiza. Flagstaff, AZ.
 - · Mycological Society of America 2015 Meeting. Edmonton, AB, CANADA.
 - · Society for Molecular Biology & Evolution 2015. Vienna, Austria.
 - · University of California, Los Angeles, CA.
 - · University of California, Merced, CA.
 - · 28th Fungal Genetics Conference. Asilomar Conference Center, Pacific Grove, CA.
 - · Oregon State University, Corvallis, OR.
 - · Oklahoma State University, Stillwater, OK.

September 15, 2022