

# 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 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 fungalsin 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., 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.
  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.

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38. Burns, C., **Stajich**, J. E., Rechtsteiner, A., Hanlon, S. E., Wilke, S. K., Palmerini, H. J., Savitsky, 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 Pathog* 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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45. Nygren, K., Wallberg, A., Samils, N., **Stajich**, J. E., Townsend, J. P., Karlsson, M., and Johannesson, H. 2012. Analyses of expressed sequence tags in *Neurospora* reveal rapid evolution of genes associated with the early stages of sexual reproduction in fungi. *BMC Evol Biol* 12:229. doi:10.1186/1471-2148-12-229.
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#### Microbial Resource Announcements

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4. de Melo Teixeira, M., Barker, B. M., and **Stajich**, J. E. 2019. Improved reference genome sequence of *Coccidioides immitis* strain WA 211, isolated in Washington State. *Microbial Resource Announcements* 8(33):e00149–19. doi:10.1128/MRA.00149-19.
5. Coleine, C., Albanese, D., Onofri, S., Zucconi, L., Tringe, S. G., Pennacchio, C., Donati, C., **Stajich**, J. E., and Selbmann, L. 2020. Metagenomes in the borderline ecosystems of the Antarctic cryptoendolithic communities. *Microbial Resource Announcements* 9(10):e01599–19. doi:10.1128/MRA.01599-19.
6. Coleine, C., Masonjones, S., Onofri, S., Selbmann, L., and **Stajich**, J. E. 2020. Draft genome sequence of yeast *Rhodotorula* sp. CCFEE 5036, isolated from McMurdo Dry Valleys, Antarctica. *Microbiology Resource Announcements* 9(14):e00020–20. doi:10.1128/MRA.00020-20.

7. **Stajich**, J. E., Vu, A. L., Judelson, H. S., Vogel, G. M., Gore, M. A., Carlson, M. O., Devitt, N., Jacobi, J., Mudge, J., Lamour, K. H., and Smart, C. D. 2021. High-quality reference genome sequence for the oomycete vegetable pathogen *Phytophthora capsici* strain LT1534. *Microbial Resource Announcements* pages e00295–21. doi:10.1128/MRA.00295-21.
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9. Coleine, C., Selbmann, L., Pombubpa, N., and **Stajich**, J. E. 2021. Amplicon sequencing of rock-inhabiting microbial communities from Joshua Tree National Park, USA. *Microbiology Resource Announcements* 10:e0049421. doi:10.1128/MRA.00494-21.

### Submitted Manuscripts and Preprints

1. Unruh, S. A., Pires, C. A., Zettler, L. W., Erba, L., Grigoriev, I. V., Barry, K. W., Daum, C., Lipzen, A. V., and **Stajich**, J. E. 2019. Shallow genome sequencing for phylogenomics of mycorrhizal fungi from endangered orchids. *Biorxiv* doi:10.1101/862763.
2. Alvarado, P., de Melo Teixeira, M., Pérez-Rojas, Y., Barker, B., **Stajich**, J. E., Zambrano, E. A., and Gonzatti, M. I. 2020. Genomic characterization and biochemical identification of secreted antigens and peptidases in a Venezuelan clinical isolate of *Histoplasma suramericanum*. *Submitted*.
3. Carter-House, D., Chung, J., McDonald, S., Mauck, K., and **Stajich**, J. E. 2020. Volatiles from *Serratia marcescens*, *S. proteamaculans*, and *Bacillus subtilis* inhibit growth of *Rhizopus stolonifer* and other fungi. *bioRxiv* doi:10.1101/2020.09.07.286443.
4. Ladner, J. T., Palmer, J. M., Ettinger, C. L., **Stajich**, J. E., Farrell, T. M., Glorioso, B. M., Lawson, B., Price, S. J., Stengle, A. G., Grear, D. A., and Lorch, J. M. 2022. Population genetic analysis of *Ophidiomyces ophidiicola*, the causative agent of snake fungal disease, indicates recent introductions to the usa. *bioRxiv* doi:10.1101/2022.03.23.485546.

### Reviews (Refereed)

1. **Stajich**, J. E. and Lapp, H. 2006. Open source tools and toolkits for bioinformatics: significance, and where are we? *Brief Bioinform* 7(3):287–296. doi:10.1093/bib/bbl026.
2. **Stajich**, J. E., Berbee, M. L., Blackwell, M., Hibbet, D. S., James, T. Y., Spatafora, J. W., and Taylor, J. W. 2009. The Fungi. *Current Biol* 19(18):R840–R845. doi:10.1016/j.cub.2009.07.004.
3. Rosenblum, E. B., Voyles, J., Porten, T. J., and **Stajich**, J. E. 2010. The deadly chytrid fungus: a story of an emerging pathogen. *PLoS Pathogens* 6(1):e1000550. doi:10.1371/journal.ppat.1000550.
4. Rosenblum, E. B., Fisher, M. C., James, T. Y., **Stajich**, J. E., Longcore, J. E., Gentry, L. R., and Porten, T. J. 2010. A molecular perspective on the biology of the emerging pathogen *Batrachochytrium dendrobatidis*. *Diseases of Aquatic Organisms* 92(2-3):131–147. doi:10.3354/dao02179.
5. Hibbett, D. S., **Stajich**, J. E., and Spatafora, J. W. 2013. Toward genome-enabled mycology. *Mycologia* 105(6):1339–1349. doi:10.3852/13-196.
6. Amend, A., Burgaud, G., Cunliffe, M., Edgcomb, V. P., Ettinger, C. L., Gutiérrez, M. H., Heitman, J., Hom, E. F. Y., Ianiri, G., Jones, A. C., Kagami, M., Picard, K. T., Quandt, C. A., Raghukumar, S., Riquelme, M., **Stajich**, J., Vargas-Muñoz, J., Walker, A. K., Yarden, O., and Gladfelter, A. S. 2019. Fungi in the marine environment: Open questions and unsolved problems. *mBio* 10(2):e01189–18. doi:10.1128/mBio.01189-18.



7. Warren, S. D., Clair, L. L. S., Stark, L. R., Lewis, L. A., Pombubpa, N., Kurbessoian, T., **Stajich**, J. E., and Aanderud, Z. T. 2019. Reproduction and dispersal of biological soil crust organisms. *Frontiers In Ecology & Evolution* 7:344. doi:10.3389/fevo.2019.00344.
8. Fisher, M. C., Gurr, S. J., Cuomo, C. A., Blehert, D. S., Jin, H., Stukenbrock, E. H., **Stajich**, J. E., Kahmann, R., Boone, C., Denning, D. W., Gow, N. A. R., Klein, B. S., Kronstad, J. W., Sheppard, D. C., Taylor, J. W., Wright, G. D., Heitman, J., Casadevall, A., and Cowen, L. E. 2020. Threats posed by the fungal kingdom to humans, wildlife, and agriculture. *mBio* 11(3):e00449–20. doi: 10.1128/mBio.00449-20.
9. Lovett, B., Macias, A., **Stajich**, J. E., Cooley, J., Eilenberg, J., de Fine Licht, H. H., and Kasson, M. T. 2020. Behavioral betrayal: how select fungal parasites enlist living insects to do their bidding. *PLoS Pathogens* 16(6):e1008598. doi:10.1371/journal.ppat.1008598.
10. James, T. Y., **Stajich**, J. E., Hittinger, C. T., and Rokas, A. 2020. Towards a fully resolved Fungal Tree of Life. *Annual Reviews of Microbiology* 74:291–313. doi:10.1146/annurev-micro-022020-051835.
11. Coleine, C., **Stajich**, J. E., de Los Ríos, A., and Selbmann, L. 2020. Beyond the extremes: Rocks as ultimate refuge for fungi in drylands. *Mycologia* 113(1):108–133. doi:10.1080/00275514.2020.1816761.
12. Selbmann, L., Benkö, Z., Coleine, C., de Hoog, S., Donati, C., Druzhinina, I., Emri, T., Ettinger, C. L., Gladfelter, A. S., Gorbushina, A. A., Grigoriev, I. V., Grube, M., Gunde-Cimerman, N., Karányi, Z. A., Kocsis, B., Kubressioian, T., Miklós, I., Miskei, M., Muggia, L., Northen, T., Novak-Babic, M., Pennacchio, C., Pfliegler, W. P., Pócsi, I., Prigione, V., Riquelme, M., Segata, N., Schumacher, J., Shelest, E., Sterflinger, K., Tesei, D., U'Ren, J. M., Varese, G. C., Vázquez-Campos, X., Vicente, V. A., Souza, E. M., Zalar, P., Walker, A. K., and **Stajich**, J. E. 2020. Shed light in the DaRk LineagES of the fungal tree of life-STRES. *Life* 10(12):362. doi:10.3390/life10120362.
13. Lofgren, L. A. and **Stajich**, J. E. 2021. Fungal biodiversity and conservation mycology in light of new technology, big data, and changing attitudes. *Current Biology* 31:R1312–R1325. doi: 10.1016/j.cub.2021.06.083.
14. Coleine, C., **Stajich**, J. E., and Selbmann, L. 2022. Fungi are key players in extreme ecosystems. *Trends in Ecology & Evolution* ISSN 1872-8383. doi:10.1016/j.tree.2022.02.002.

## Books and Book Chapters

1. Coghlan, A., **Stajich**, J. E., and Harris, T. W. 2006. Comparative genomics in *C. elegans*, *C. briggsae*, and other *Caenorhabditis* species. *Methods Mol Biol* 351:13–29. doi:10.1385/1-59745-151-7:13.
2. **Stajich**, J. E. and Dietrich, F. S. 2006. Genomic perspectives on the fungal kingdom. In J. Heitman, S. G. Filler, J. E. Edwards Jr, and A. P. Mitchell, editors, *Molecular principles of fungal pathogenesis*, pages 657–666. ASM press.
3. **Stajich**, J. E. 2007. An introduction to BioPerl. *Methods Mol Biol* 406:535–548.
4. Edwards, D., **Stajich**, J. E., and Hansen, D., editors. 2009. *Bioinformatics*. Springer, NY.
5. McKay, S. J., Vergara, I. A., and **Stajich**, J. E. 2010. Using the Generic Synteny Browser (GBrowse\_syn). *Curr Protoc Bioinformatics* Chapter 9:Unit9.12. doi:10.1002/0471250953.bi0912s31.
6. Fisher, M. C., **Stajich**, J. E., and Farrer, R. A. 2012. Emergence of the chytrid fungus *Batrachochytrium dendrobatidis* and global amphibian declines. In D. Sibley, B. Howlett, and J. Heitman, editors, *Evolution of Virulence in Eukaryotic Microbes*. Wiley Blackwell.
7. **Stajich**, J. E. 2013. Comparative genomics. In J. Losos, D. Baum, D. J. Futuyma, H. Hoekstra, R. Lenski, A. Moore, D. Schluter, and M. Whitlock, editors, *The Princeton Guide to Evolution*. Princeton University Press.

8. **Stajich**, J. E. 2015. Phylogenomics enabling genome based mycology. In D. J. McLaughlin, M. Blackwell, and J. W. Spatafora, editors, *The Mycota VII*, Systematics and Evolution. Springer.
9. Spatafora, J. W., Aime, M. C., Grigoriev, I. V., Martin, F., **Stajich**, J. E., and Blackwell, M. 2017. The fungal tree of life: From molecular systematics to genome-scale phylogenies. In J. Heitman, B. J. Howlett, P. W. Crous, E. H. Stukenbrock, T. Y. James, and N. A. R. Gow, editors, *The Fungal Kingdom*, chapter 1, pages 1–34. John Wiley & Sons, Ltd. doi:10.1128/9781555819583.ch1.
10. **Stajich**, J. E. 2017. Fungal genomes and insights into the evolution of the kingdom. In J. Heitman, B. J. Howlett, P. W. Crous, E. H. Stukenbrock, T. Y. James, and N. A. R. Gow, editors, *The Fungal Kingdom*, chapter 29, pages 619–633. John Wiley & Sons, Ltd. doi:10.1128/microbiolspec.FUNK-0055-2016.

## Meeting and Technical Reports

1. Lapp, H., Bala, S., Balhoff, J., Bouck, A., Goto, N., Holder, M., Holland, R., Holloway, A., Katayama, T., Lewis, P. O., Mackey, A. J., Osborne, B. I., Piel, W. H., Kosakovsky Pond, S. L., Poon, A., Qiu, W., **Stajich**, J. E., Stoltzfus, A., Thierer, T., Vilella, A. J., Vos, R. A., Zmasek, C., Zwickl, D., and Vision, T. J. 2007. The 2006 NESCent Phyloinformatics Hackathon: A field report. *Evolutionary Bioinformatics Online* 3:357–366.
2. Bates, S. T., Ahrendt, S., Bik, H., Bruns, T. D., Caparaso, J., Cole, J., Dwan, M., Fierer, N., Gu, D., Houston, S., Knight, R., Leff, J., Lewis, C., McDonald, D., Nilsson, H., Porras-Alfaro, A., Robert, V., Schoch, C., Scott, J., Taylor, D. L., Wegener-Parfrey, L., and **Stajich**, J. E. 2013. Meeting Report: Fungal ITS Workshop (October 2012). *SIGS* 8:118–23.
3. Glass, E. M., Dribinsky, Y., Yilmaz, P., Levin, H., Van Pelt, R., Wendel, D., Wilke, A., Eisen, J. A., Huse, S., Shipanova, A., Sogin, M., **Stajich**, J., Knight, R., Meyer, F., and Schriml, L. M. 2014. MlXs-BE: a MlXs extension defining a minimum information standard for sequence data from the built environment. *ISME J* 8(1):1–3. doi:10.1038/ismej.2013.176.
4. Kennedy, P. and **Stajich**, J. E. 2015. Twenty-first century mycology: a diverse, collaborative, and highly relevant science. *New Phytol* 205(1):23–26. doi:10.1111/nph.13165.
5. Momany, M., Di Pietro, A., Alexander, W. G., Barker, B. M., Harb, O. S., Kamoun, S., Martin, F., Pires, J. C., **Stajich**, J. E., Thomma, B. P. H. J., and Unruh, S. 2015. Meeting Report: Fungal Genomics Meets Social Media: Highlights of the 28th Fungal Genetics Conference at Asilomar. *G3: Genes | Genomes | Genetics* 5(12):2523–2525. doi:10.1534/g3.115.024158.
6. Gaya, E., Kooijja, P., Dentinger, B. T. M., Grigoriev, I. V., Nagy, L., **Stajich**, J. E., Coker, T., and Leitch, I. J. 2018. State of the world's fungi. report. chapter Fungal tree of life., pages 12–17. Royal Botanic Gardens, Kew.
7. Baltrus, D. A., Cuomo, C. A., Dennehy, J. J., Dunning Hotopp, J. C., Maresca, J. A., Newton, I. L. G., Rasko, D. A., Rokas, A., Roux, S., and **Stajich**, J. E. 2019. Future-proofing your *Microbiology Resource Announcements* genome assembly for reproducibility and clarity. *Microbiology Resource Announcements* 8(36):e00954–19. doi:10.1128/MRA.00954-19.
8. Pombubpa, N., Kurbessoian, T., **Stajich**, J. E., and Pietrasiak, N. 2020. Exploring the microbial diversity in biological soil crusts at Joshua Tree National Park. <https://www.nps.gov/articles/exploring-the-microbial-diversity-in-biological-soil-crusts-at-joshua-tree-national-park.htm>.
9. Dunning Hotopp, J. C., Baltrus, D. A., Bruno, V. M., Dennehy, J. J., Gill, S. R., Maresca, J. A., Matthijnsens, J., Newton, I. L. G., Putonti, C., Rasko, D. A., Rokas, A., Roux, S., **Stajich**, J. E., Stedman, K. M., Stewart, F. J., and Thrash, J. C. 2020. Best practices for successfully writing and publishing a genome announcement in *Microbial Resource Announcements*. *Microbiology Resource Announcements* 9(36):e00763–20. doi:10.1128/MRA.00763-20.

10. Case, N. T., Song, M., Fulford, A. H., Graham, H. V., Orphan, V. J., **Stajich**, J. E., Casadevall, A., Mustard, J., Heitman, J., Lollar, B. S., and Cowen, L. E. 2022. Exploring space via astromycology: A report on the cifar programs *Earth 4D* and *Fungal Kingdom* inaugural joint meeting. *Astrobiology* ISSN 1557-8070. doi:10.1089/ast.2021.0186.

## Commentaries and Book Reviews

1. **Stajich**, J. E. 2009. Review of Bioinformatics, Volume I: Data, Sequence Analysis and Evolution; Volume II: Structure, Function and Applications. *The Quarterly Review of Biology* 84(3):284–285. doi:10.1086/644662. Book Review.
2. **Stajich**, J. E. 2011. Review of cellular and molecular biology of filamentous fungi. *The Quarterly Review of Biology* 86(1):59–59. doi:10.1086/658451. Book Review.
3. **Stajich**, J. E. 2016. Fungal Evolution: *Mucor* and *Phycomyces* see double. *Curr Biol* 26(16):R775–R777. doi:10.1016/j.cub.2016.06.049.
4. Valent, B., Farman, M., Tosa, Y., Begerow, D., Fournier, E., Gladieux, P., Islam, M. T., Kamoun, S., Kemler, M., Kohn, L. M., Lebrun, M.-H., **Stajich**, J. E., Talbot, N. J., Terauchi, R., Tharreau, D., and Zhang, N. 2019. *Pyricularia graminis-tritici* is not the correct species name for the wheat blast fungus: response to Ceresini *et al.* (mpp 20:2). *Molecular Plant Pathology* 20:173–179. doi:10.1111/mpp.12778.
5. O'Donnell, K., Al-Hatmi, A. M. S., Aoki, T., Brankovics, B., Cano-Lira, J. F., Coleman, J. J., de Hoog, G. S., Pietro, A. D., Frandsen, R. J. N., Geiser, D. M., Gibas, C. F. C., Guarro, J., Kim, H.-S., Kistler, H. C., Laraba, I., Leslie, J. F., López-Berges, M. S., Lysøe, E., Meis, J. F., Monod, M., Proctor, R. H., Rep, M., Ruiz-Roldán, C., Sisic, A., **Stajich**, J. E., Steenkamp, E. T., Summerell, B. A., van der Lee, T. A. J., van Diepeningen, A. D., E.Verweij, P., Waalwijk, C., Ward, T. J., Wickes, B. L., Wiederhold, N. P., Wingfield, M. J., Zhang, N., and Zhang, S. X. 2020. No to *Neocosmospora*: Phylogenomic and practical reasons for continued inclusion of the *Fusarium solani* species complex in the genus *Fusarium*. *mSphere* 5(5):e00810–20. doi:10.1128/mSphere.00810-20.

## Essays

1. **Stajich**, J. E. 2014. Top 5 real wolves of wall street. <http://nautil.us/issue/10/mergers--acquisitions/top-5-real-wolves-of-wall-street>. "Moldy Monopolies" and "Creepy Crawly Conglomerate" in the "Mergers & Acquisitions" issue.

## Software and other Products

BioPerl - <http://bioperl.org> - Core developer  
 Github <http://github.com/hyphal-tip> - 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 <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 “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
2020-2021	USDA-ANIMAL AND PLANT HEALTH INSPECTION SERVICE “Tracking seasonal changes of endophytic communities in <i>Fusarium</i> dieback - Invasive shot hole borers host trees in California.” Role: Co-I. PI Akif Eskalen, UC Davis
2020-2025	United States Department of Agriculture, 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
2020	Burroughs Wellcome Fund. ”Meeting grant to support 2020 Fungal Cellular and Molecular Biology Gordon Research Conference” Role: PI. (postponed for 2022)
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) <a href="https://herptilemicrobiomes.org/">https://herptilemicrobiomes.org/</a>
2022-2026	National Science Foundation. Recommended for funding “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)

## 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 <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. "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" Role: PI.
2016-2019	National Science Foundation. DEB-1557110. (No Cost Ext thru 04/2020) "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) "CPGS: Genome-wide impact of <i>mPing</i> transposition on rice phenotypic diversity." Role: Co-I. PI: SR Wessler (UC Riverside). <a href="http://dynamiterice.org">http://dynamiterice.org</a>
2015-2018	National Science Foundation. GO Life DEB-1441715. (No Cost Ext thru 08/2020) "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) <a href="http://zygolife.org">http://zygolife.org</a>
2017-2020	Univ of California-Office of the President, MRPI. "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."

2020-2021      Role: PI with Co-PIs M Kalkum and S Dadwal at City of Hope Hospital  
 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

## 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      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– PhD Student, Jesús Peña, Microbiology  
2017– PhD Student, Julia Adams, Plant Biology  
2017– PhD Student, Tania Kurbessoian, Microbiology  
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

### **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.

### 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 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 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.

### 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 Moktali, 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.



## 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://biodataprogram.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 Business  
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, GGB  
Yi Zhou, MS, GGB ★  
2012 Andrew Defries, PhD, Plant Sciences

2013	Gilbert Uribe, MS, Plant Pathology Divya Sain, PhD, GGB *
2014	Yizhou Wang, PhD, Plant Sciences * Zhigang Wu, PhD, GGB
2015	Presha Shah, PhD, Biochemistry Ming Wang, PhD, Plant Pathology Steven Ahrendt, PhD, GGB * Ilva Cabrera, PhD, GGB Jinfeng Lu, PhD, GGB James Ricci, MS, Entomology
2016	Ryan Arvidson, PhD, Biochemistry Francis Na, MS, Microbiology Jishu Ha, PhD, GGB Arit Gosh, PhD, GGB Kelsey Gano, PhD, Microbiology Kun Liu, PhD, Plant Biology
2017	Raissa Green, PhD, GGB Amelia Lindsey, PhD, Entomology Patrick Schriener, PhD, GGB Eric Smith, PhD, GGB 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, GGB △
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, GGB *
ongoing	Jesús Peña, Microbiology * 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 Hannah Schulman, Microbiology Sarah Thorwall, Chemical and Environmental Engineering Samantha (Smith) Standring, Entomology Jericho Ortanez, Microbiology

★ Stajich is Dissertation advisor or △ co-advisor / substitute ○ 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  
· University of Delaware, 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.  
· XI CONGRESO NACIONAL DE MICOLOGIA, Sociedad Mexicana de Micología. 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.

April 12, 2022