Jason E. Stajich

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Education

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

Academic appointments:

2017–	Professor
2014-2017	Associate Professor (with tenure)
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:

2017	Whetzel-Westcott-Dimock Special Lecturer, Cornell University
2015	Kavli Fellow, Kavli Frontiers of Science
2014	C. J. Alexopoulos Prize, Mycological Society for America
2006-2009	Miller Institute for Basic Research in Science, Postdoctoral Research Fellowship
2003-2006	National Science Foundation, Graduate Research Fellowship

Publications: (Listed in reverse chronological order.)

Peer Reviewed Publications

- 1. Collins, C., **Stajich**, J. E., Weber, S., Pombubpa, N., and Diez, J. 2018. Shrub range expansion alters diversity and distribution of soil fungal communities in a high elevation alpine ecosystem. *Molecular Ecology In Press*. doi:10.1111/mec.14694.
- 2. Gryganskyi, A. P., Golan, J., Dolatabadi, S., Mondo, S., Robb, S., Idnurm, A., Muszewska, A., Steczkiewicz, K., Masonjones, S., Liao, H.-L., Gajdeczka, M. T., Anike, F., Vuek, A., Anishchenko, I. M., Voigt, K., de Hoog, G. S., Smith, M. E., Heitman, J., Vylgalys, R., and **Stajich**, J. E. 2018. Phylogenetic and phylogenomic definition of the Rhizopus species complex. *G3: Genes | Genomes | Genetics In press.* doi:10.1534/g3.118.200235.
- 3. Cissé, O. H., Ma, L., Huang, D. W., Khil, P., Dekker, J., Kutty, G., Bishop, L., Liu, Y., Hauser, P. M., Pagni, M., Hirsch, V., Lempicki, R. A., **Stajich**, J. E., Cuomo, C. A., and Kovacs, J. A. 2018. Population bottlenecks shaped the evolution of the fungal pathogen *Pneumocystis* in mammals. *mBio in Press*.
- 4. Wang, Y., Stata, M., Wang, W., **Stajich**, J. E., White, M. M., and Moncalvo, J.-M. 2018. Comparative genomics reveals the core gene toolbox for the fungus-insect symbiosis. *mBio in Press*.
- 5. Kirkland, T. N., Muszewska, A., and **Stajich**, J. E. 2018. Analysis of transposable elements in *Coccidioides* species. *Journal of fungi (Basel, Switzerland)* 4. doi:10.3390/jof4010013.
- 6. Leonard, G., Labarre, A., Milner, D. S., Monier, A., Soanes, D., Wideman, J. G., Maguire, F., Stevens, S., Sain, D., Grau-Bové, X., Sebé-Pedrós, A., **Stajich**, J. E., Paszkiewicz, K., Brown, M. W., Hall,

- N., Wickstead, B., and Richards, T. A. 2018. Comparative genomic analysis of the 'pseudofungus' *Hyphochytrium catenoides. Open biology* 8. doi:10.1098/rsob.170184.
- 7. Beaudet, D., Chen, E. C. H., Mathieu, S., Yildirir, G., Ndikumana, S., Yolande, D., Séuin, S., Farinelli, L., **Stajich**, J. E., and Corradi, N. 2017. Ultra-low input transcriptomics reveal the spore functional content and phylogenetic affiliations of poorly studied arbuscular mycorrhizal fungi. *DNA Research* doi:10.1093/dnares/dsx051.
- 8. Lu, L., Chen, J., Robb, S. M. C., Okumoto, Y., **Stajich**, J. E., and Wessler, S. R. 2017. Tracking the genome-wide outcomes of a transposable element burst over decades of amplification. *Proceedings of the National Academy of Sciences of the United States of America* 114:E10550–E10559. doi: 10.1073/pnas.1716459114.
- 9. Na, F., Carrillo, J. D., Mayorquin, J. S., Ndinga-Muniania, C., **Stajich**, J. E., Stouthamer, R., Huang, Y.-T., Lin, Y.-T., Chen, C.-Y., and Eskalen, A. 2017. Two novel fungal symbionts *Fusarium kuroshium* sp. nov. and *Graphium kuroshium* sp. nov. of Kuroshio shot hole borer (*Euwallacea* sp. nr. *fornicatus*) cause Fusarium Dieback on woody host species in California. *Plant Disease In Press*. doi:10.1094/PDIS-07-17-1042-RE.
- 10. Aryal, S. K., Carter-House, D., **Stajich**, J. E., and Dillman, A. R. 2017. Microbial associates of the southern mole cricket (*Scapteriscus borellii*) are highly pathogenic. *Journal of invertebrate pathology* 150:54–62. doi:10.1016/j.jip.2017.09.008.
- 11. Park, S.-Y., Scranton, M. A., **Stajich**, J. E., Yee, A., and Walling, L. L. 2017. Chlorophyte aspartyl aminopeptidases: Ancient origins, expanded families, new locations, and secondary functions. *PloS one* 12:e0185492. doi:10.1371/journal.pone.0185492.
- 12. Torres-Cruz, T. J., Billingsley Tobias, T. L., Almatruk, M., Hesse, C. N., Kuske, C. R., Desirò, A., Benucci, G. M. N., Bonito, G., **Stajich**, J. E., Dunlap, C., Arnold, A. E., and Porras-Alfaro, A. 2017. *Bifiguratus adelaidae*, gen. et sp. nov., a new member of Mucoromycotina in endophytic and soil-dwelling habitats. *Mycologia* 109:363–378. doi:10.1080/00275514.2017.1364958.
- 13. Sinha, S., Flibotte, S., Neira, M., Formby, S., Plemenitaš, A., Cimerman, N. G., Lenassi, M., Gostinčar, C., **Stajich**, J. E., and Nislow, C. 2017. Insight into the recent genome duplication of the halophilic yeast *Hortaea werneckii*: combining an improved genome with gene expression and chromatin structure. *G3: Genes | Genomes | Genetics* 7(7):2015–2022. doi:10.1534/g3.117.040691.
- 14. Mondo, S. J., Dannebaum, R. O., Kuo, R. C., Louie, K. B., Bewick, A. J., LaButti, K., Haridas, S., Kuo, A., Salamov, A., Ahrendt, S. R., Lau, R., Bowen, B. P., Lipzen, A., Sullivan, W., Andreopoulos, B. B., Clum, A., Lindquist, E., Daum, C., Northen, T. R., Kunde-Ramamoorthy, G., Schmitz, R. J., Gryganskyi, A., Culley, D., Magnuson, J., James, T. Y., O'Malley, M. A., **Stajich**, J. E., Spatafora, J. W., Visel, A., and Grigoriev, I. V. 2017. Widespread adenine N6-methylation of active genes in fungi. *Nature Genetics* 49:964–968. doi:10.1038/ng.3859.
- 15. Ahrendt, S. R., Medina, E. M., Chia-en, A. C., and **Stajich**, J. E. 2017. Exploring the binding properties and structural stability of an opsin in the chytrid *Spizellomyces punctatus* using comparative and molecular modeling. *PeerJ* 5:e3206. doi:10.7717/peerj.3206.
- 16. Nguyen, T. A., Cissé, O. H., Yun Wong, J., Zheng, P., Hewitt, D., Nowrousian, M., **Stajich**, J. E., and Jedd, G. 2017. Innovation and constraint leading to complex multicellularity in the Ascomycota. *Nature Communications* 8:14444. doi:10.1038/ncomms14444.
- 17. Chen, J., Wrightsman, T., Wessler, S. R., and **Stajich**, J. E. 2017. RelocaTE2: a high resolution transposable element insertion site mapping tool for population resequencing. *PeerJ* 5:e2942. doi:10.7717/peerj.2942.
- 18. Spatafora, J. W., Chang, Y., Benny, G. L., Lazarus, K., Smith, M. E., Berbee, M. L., Bonito, G., Corradi, N., Grigoriev, I., Gryganskyi, A., James, T. Y., O'Donnell, K., Roberson, R. W., Taylor, T. N., Uehling, J., Vilgalys, R., White, M. M., and **Stajich**, J. E. 2016. A phylum-level phylogenetic classification of zygomycete fungi based on genome-scale data. *Mycologia* 108:1028–1046. doi: 10.3852/16-042.

- 19. Short, D. P., O'Donnell, K., **Stajich**, J. E., Hulcr, J., Kijimoto, T., Berger, M. C., Macias, A. M., Spahr, E. J., Bateman, C. C., Eskalen, A., et al. 2017. PCR multiplexes discriminate *Fusarium* symbionts of invasive *Euwallacea* ambrosia beetles that inflict damage on numerous tree species throughout the United States. *Plant Disease* 101(1):233–240. doi:10.1094/PDIS-07-16-1046-RE.
- 20. Castanera, R., López-Varas, L., Borgognone, A., LaButti, K., Lapidus, A., Schmutz, J., Grimwood, J., Pérez, G., Pisabarro, A. G., Grigoriev, I. V., **Stajich**, J. E., and Ramírez, L. 2016. Transposable elements versus the fungal genome: Impact on whole-genome architecture and transcriptional profiles. *PLoS Genet* 12(6):e1006108. doi:10.1371/journal.pgen.1006108.
- 21. Lee, M. J., Geller, A. M., Bamford, N. C., Liu, H., Gravelat, F., Snarr, B. D., Le Mauff, F., Chabot, J., Ralph, B., Ostapska, H., Lehoux, M., Cerone, R. P., Baptisa, S. D., Vinogradov, E., **Stajich**, J. E., Filler, S. G., Howell, P. L., and Sheppard, D. C. 2016. Deacetylation of fungal exopolysaccharide mediates adhesion and biofilm formation. *mBio* 7(2):e00252–16. doi:10.1128/mBio.00252-16.
- 22. de Man, T. J. B., **Stajich**, J. E., Kubicek, C. P., Teiling, C., Chenthamara, K., Atanasova, L., Druzhinina, I. S., Levenkova, N., Birnbaum, S. S. L., Barribeau, S. M., Bozick, B. A., Suen, G., Currie, C. R., and Gerardo, N. M. 2016. Small genome of the fungus *Escovopsis weberi*, a specialized disease agent of ant agriculture. *Proc Natl Acad Sci U S A* 113(13):3567–3572. doi: 10.1073/pnas.1518501113.
- 23. U'Ren, J. M., Miadlikowska, J., Zimmerman, N. B., Lutzoni, F., **Stajich**, J. E., and Arnold, A. E. 2016. Contributions of North American endophytes to the phylogeny, ecology, and taxonomy of Xylariaceae (Sordariomycetes, Ascomycota). *Mol Phylogenet Evol* 98:210–232. doi:10.1016/j. ympev.2016.02.010.
- 24. Pieuchot, L., Lai, J., Loh, R. A., Leong, F. Y., Chiam, K.-H., **Stajich**, J. E., and Jedd, G. 2015. Cellular subcompartments through cytoplasmic streaming. *Dev Cell* 34(4):410–420. doi:10.1016/j.devcel.2015.07.017.
- 25. Wang, Y., Smith, K. M., Freitag, M., and **Stajich**, J. E. 2015. Endogenous small RNA mediates meiotic silencing of a novel DNA transposon. *G3: Genes* | *Genomes* | *Genetics* 5(10):g3.115.017921. doi:10.1534/g3.115.017921.
- 26. Liu, P. and **Stajich**, J. E. 2015. Characterization of the Carbohydrate Binding Module 18 gene family in the amphibian pathogen *Batrachochytrium dendrobatidis*. *Fungal Genet Biol* 77:31–39. doi:10.1016/j.fgb.2015.03.003.
- 27. Willger, S. D., Liu, Z., Olarte, R. A., Adamo, M. E., **Stajich**, J. E., Myers, L. C., Kettenbach, A. N., and Hogan, D. A. 2015. Analysis of the *Candida albicans* phosphoproteome. *Eukaryot Cell* 14(5):474–485. doi:10.1128/EC.00011-15.
- 28. Collins, R. A., **Stajich**, J. E., Field, D. J., Olive, J. E., and DeAbreu, D. M. 2015. The low information content of *Neurospora* splicing signals: implications for RNA splicing and intron origin. *RNA* 21(5):997–1004. doi:10.1261/rna.047985.114.
- 29. Mélida, H., Sain, D., **Stajich**, J. E., and Bulone, V. 2015. Deciphering the uniqueness of mucoromycotina cell walls by combining biochemical and phylogenomic approaches. *Environmental Microbiology* 17(5):1649–62. doi:10.1111/1462-2920.12601.
- 30. Teixeira, M. M., de Almeida, L. G., Kubitschek-Barreira, P., Alves, F. L., Kioshima, E. S., Abadio, A. K., Fernandes, L., Derengowski, L. S., Ferreira, K. S., Souza, R. C., Ruiz, J. C., de Andrade, N. C., Paes, H. C., Nicola, A. M., Albuquerque, P., Gerber, A. L., Martins, V. P., Peconick, L. D., Neto, A. V., Chaucanez, C. B., Silva, P. A., Cunha, O. L., de Oliveira, F. F., Dos Santos, T. C., Barros, A. L., Soares, M. A., de Oliveira, L. M., Marini, M. M., Villalobos-Duno, H., Cunha, M. M., de Hoog, S., da Silveira, J. F., Henrissat, B., Niño-Vega, G. A., Cisalpino, P. S., Mora-Montes, H. M., Almeida, S. R., Stajich, J. E., Lopes-Bezerra, L. M., Vasconcelos, A. T., and Felipe, M. S. 2014. Comparative genomics of the major fungal agents of human and animal Sporotrichosis: *Sporothrix schenckii* and *Sporothrix brasiliensis*. *BMC Genomics* 15:943. doi:10.1186/1471-2164-15-943.

- 31. Ouyang, S., Park, G., Atamian, H. S., Han, C. S., **Stajich**, J. E., Kaloshian, I., and Borkovich, K. A. 2014. Regulation of innate immunity to the fungal pathogen *Fusarium oxysporum* by microRNAs in tomato. *PLoS Path* 10(10):e1004464. doi:10.1371/journal.ppat.1004464.
- 32. Inglis, D. O., Skrzypek, M. S., Liaw, E., Moktali, V., Sherlock, G., and **Stajich**, J. E. 2014. Literature-based gene curation and proposed genetic nomenclature for *Cryptococcus*. *Eukaryot Cell* 13(7):878–883. doi:10.1128/EC.00083-14.
- 33. Treseder, K. K., Maltz, M. R., Hawkins, B. A., Fierer, N., **Stajich**, J. E., and McGuire, K. L. 2014. Evolutionary histories of soil fungi are reflected in their large-scale biogeography. *Ecol Lett* 17(9):1086–1093. doi:10.1111/ele.12311.
- 34. Janbon, G., Ormerod, K. L., Paulet, D., Byrnes, E. J., 3rd, Yadav, V., Chatterjee, G., Mullapudi, N., Hon, C.-C., Billmyre, R. B., Brunel, F., Bahn, Y.-S., Chen, W., Chen, Y., Chow, E. W. L., Coppée, J.-Y., Floyd-Averette, A., Gaillardin, C., Gerik, K. J., Goldberg, J., Gonzalez-Hilarion, S., Gujja, S., Hamlin, J. L., Hsueh, Y.-P., Ianiri, G., Jones, S., Kodira, C. D., Kozubowski, L., Lam, W., Marra, M., Mesner, L. D., Mieczkowski, P. A., Moyrand, F., Nielsen, K., Proux, C., Rossignol, T., Schein, J. E., Sun, S., Wollschlaeger, C., Wood, I. A., Zeng, Q., Neuvéglise, C., Newlon, C. S., Perfect, J. R., Lodge, J. K., Idnurm, A., **Stajich**, J. E., Kronstad, J. W., Sanyal, K., Heitman, J., Fraser, J. A., Cuomo, C. A., and Dietrich, F. S. 2014. Analysis of the genome and transcriptome of *Cryptococcus neoformans* var. *grubii* reveals complex RNA expression and microevolution leading to virulence attenuation. *PLoS Genet* 10(4):e1004261. doi:10.1371/journal.pgen.1004261.
- 35. Sachs, J. L., Skophammer, R. G., Bansal, N., and **Stajich**, J. E. 2014. Evolutionary origins and diversification of proteobacterial mutualists. *Proc Biol Sci* 281(1775):20132146. doi:10.1098/rspb.2013.2146.
- 36. Traeger, S., Altegoer, F., Freitag, M., Gabaldon, T., Kempken, F., Kumar, A., Marcet-Houben, M., Pöggeler, S., **Stajich**, J. E., and Nowrousian, M. 2013. The genome and development-dependent transcriptome of *Pyronema confluens*: a window into fungal evolution. *PLoS Genetics* 9(9):e1003820. doi:10.1371/journal.pgen.1003820.
- 37. Gryganskyi, A. P., Humber, R. A., **Stajich**, J. E., Mullens, B., Anishchenko, I. M., and Vilgalys, R. 2013. Sequential utilization of hosts from different fly families by genetically distinct, sympatric populations within the *Entomophthora muscae* species complex. *PLoS One* 8(8):e71168. doi: 10.1371/journal.pone.0071168.
- 38. Gioti, A., **Stajich**, J. E., and Johannesson, H. 2013. *Neurospora* and the dead-end hypothesis: genomic consequences of selfing in the model genus. *Evolution* 67(12):3600–3616. doi:10.1111/evo.12206.
- 39. James, T. Y., Pelin, A., Bonen, L., Ahrendt, S., Sain, D., Corradi, N., and **Stajich**, J. E. 2013. Shared signatures of parasitism and phylogenomics unite Cryptomycota and Microsporidia. *Curr Biol* 23(16):1548–1553. doi:10.1016/j.cub.2013.06.057.
- 40. Rosenblum, E. B., James, T. Y., Zamudio, K. R., Poorten, T. J., Ilut, D., Rodriguez, D., Eastman, J. M., Richards-Hrdlicka, K., Joneson, S., Jenkinson, T. S., Longcore, J. E., Parra Olea, G., Toledo, L. F., Arellano, M. L., Medina, E. M., Restrepo, S., Flechas, S. V., Berger, L., Briggs, C. J., and Stajich, J. E. 2013. Complex history of the amphibian-killing chytrid fungus revealed with genome resequencing data. *Proc Natl Acad Sci U S A* 110(23):9385–9390. doi:10.1073/pnas.1300130110.
- 41. Robb, S. M. C., Lu, L., Valencia, E., Burnette, J. M., 3rd, Okumoto, Y., Wessler, S. R., and **Stajich**, J. E. 2013. The use of RelocaTE and unassembled short reads to produce high-resolution snapshots of transposable element generated diversity in rice. *G3: Genes* | *Genomes* | *Genetics* 3(6):949–57. doi:10.1534/g3.112.005348.
- 42. Jamieson, K., Rountree, M. R., Lewis, Z. A., **Stajich**, J. E., and Selker, E. U. 2013. Regional control of histone H3 lysine 27 methylation in *Neurospora*. *Proc Natl Acad Sci U S A* 110(15):6027–6032. doi:10.1073/pnas.1303750110.

- 43. Cheng, C. K., Au, C. H., Wilke, S. K., **Stajich**, J. E., Zolan, M. E., Pukkila, P. J., and Kwan, H. S. 2013. 5'-serial analysis of gene expression studies reveal a transcriptomic switch during fruiting body development in *Coprinopsis cinerea*. *BMC Genomics* 14(1):195. doi:10.1186/1471-2164-14-195.
- 44. Gioti, A., Nystedt, B., Li, W., Xu, J., Andersson, A., Averette, A. F., Münch, K., Wang, X., Kappauf, C., Kingsbury, J. M., Kraak, B., Walker, L. A., Johansson, H. J., Holm, T., Lehtiö, J., **Stajich**, J. E., Mieczkowski, P., Kahmann, R., Kennell, J. C., Cardenas, M. E., Lundeberg, J., Saunders, C. W., Boekhout, T., Dawson, T. L., Munro, C. A., de Groot, P. W. J., Butler, G., Heitman, J., and Scheynius, A. 2013. Genomic insights into the atopic eczema-associated skin commensal yeast *Malassezia sympodialis*. *MBio* 4(1):e00572–e00512. doi:10.1128/mBio.00572-12.
- 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.
- 46. Abramyan, J. and **Stajich**, J. E. 2012. Species-specific chitin-binding module 18 expansion in the amphibian pathogen *Batrachochytrium dendrobatidis*. *MBio* 3(3):e00150–e00112. doi:10.1128/mBio.00150-12.
- 47. 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.
- 48. **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.
- 49. 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.
- 50. 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.
- 51. 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.
- 52. 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.
- 53. Smith, K. M., Sancar, G., Dekhang, R., Sullivan, C. M., Li, S., Tag, A. G., Sancar, C., Bredeweg, E. L., Priest, H. D., McCormick, R. F., Thomas, T. L., Carrington, J. C., **Stajich**, J. E., Bell-Pedersen, D., Brunner, M., and Freitag, M. 2010. Transcription factors in light and circadian clock signaling networks revealed by genomewide mapping of direct targets for Neurospora White Collar Complex. *Eukaryot Cell* 9(10):1549–1556. doi:10.1128/EC.00154-10.
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- 2. 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.

- 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. MIxS-BE: a MIxS 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. 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.
- 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., Vielella, 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.

Commentaries and Book Reviews

- 1. **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.
- 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. 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.

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/hyphaltip - individual projects

Github http://github.com/stajichlab - lab projects

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://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 Ge-

nomics

Website & Database (Collaboration): http://fungidb.org

Grant Support:

Ongoing support

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).

2011-2017	National Science Foundation. Plant Genome - IOS-1027542. (No Cost Extension thru 2019)
	"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.
	"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)
2016 2010	http://zygolife.org National Science Foundation. DEB-1557110.
2016-2019	
	"Collaborative Research: Phylogenomics and evolutionary history of the anaerobic fungal
	group, Neocallimastigomycota" Role, D. Collaborative linked gward Di. N. Voyagef (Oklahoma State)
2017-2020	Role: PI. Collaborative linked award PI: N Youssef (Oklahoma State) Univ of California-Office of the President, MRPI.
2017-2020	"UC Valley Fever Research Initiative"
	Role: Co-PI. PI: Anita Sil (UCSF) and Co-PIs at UCBerkeley, UCMerced, UC San Diego
2017-2021	National Institutes of Health. R01-AI127548-01A1
2017-2021	"Evolved Heterogeneity contributes to chronic fungal lung infections"
	Role: Senior Personnel. PI: D Hogan (Dartmouth)
2017-2022	National Institutes of Health. R01-AI130128-01A1
2017 2022	"Evolution of Aspergillus fumigatus virulence"
	Role: Senior Personnel. PI: RA Cramer, Jr (Dartmouth)
Completed supp	
2010-2013	Burroughs Wellcome Fund.
	"FungiDB: A Pan Fungal Genome Database".
	Role: Co-I. PI: DS Roos (U Pennsylvania)
2011-2012	UC Riverside, Chancellor's Strategic Investment Funds.
	"Coelomomyces Genomics for Mosquito Vector Control"
	Role: Co-I. PI: B Federici. Co-I: A Ray (UC Riverside)
2013-2014	UC Riverside, Office of Research Strategic Investment Funds.
	"High-throughput synthetic biology for natural products discovery"
	Role: Co-I. PI: K Borkovich. Co-I: C Larive (UC Riverside)
2013-2014	National Institutes of Health - 1-R03-AI105636-01.
	"Annotation of Cryptococcus genomes by comprehensive curation of published literature"
	Role: PI. Co-I G Sherlock (Stanford)
2011-2014	Alfred P. Sloan Foundation.
	"MoBe DAC: A data coordinating center for the Sloan Indoor Environment Metagenomic
	Project - Fungal resources".
	Role: PI. Linked grants with F Meyer (U Chicago/ANL), R Knight (U Colorado), M Sogin
	(Marine Biological Lab).
2014-2015	National Science Foundation. DBI-1429826.
	"MRI: Acquisition of a Big Data Compute Cluster for Interdisciplinary Research" Role: Co
0014 0017	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)

Service

University and Departmental

2015–	Director & Admissions Advisor, Microbiology Graduate Program (Sabbatical
	leave 2016-17)
2017–	Graduate Council
2014–2015	Graduate Advisor, Microbiology Graduate Program
Editorial Bo	pards
2018-	Associate Editor, Genetics
2018–	Associate Editor, Mycologia
2016–	Editorial Board, Current Opinion in Microbiology
2015–	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 2009–2016	Editorial Board, Eukaryotic Cell. Section Editor, PLoS One.
2009–2016	Academic Editor, PLoS One.
2007-2010	Academic Editor, FLOS Onc.
Professiona	
2018-2020	Co-Vice Chair (2018) and Co-Chair (2020) of Cellular and Molecular Fungal
2017 2021	Biology, Gordon Research Conference
2017-2021	Karling Lecture Committee, MSA
2014–2018 2013–2019	Neurospora Policy Committee, Co-Organized 2016 Neurospora conference Fungal Genetics Policy Committee
2013–2019	Scientific advisory board, Plant Microbe Interactions - DOE Science Focus
2012-2017	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 in-
0005 0011	frastructure, National Center for Evolutionary Synthesis (NESCent).
2005–2011	President and Board Member [2005–2014], Open Bioinformatics Foundation 1.
2001-	tion http://www.open-bio.org/ Co-Project leader, BioPerl. http://www.bioperl.org/
2001-	Co-rioject leader, Biorein. http://www.bioperi.org/
Membership in Professional Societies:	
	-
2002–	International Society for Computational Biology
2004–	Society for Molecular Biology and Evolution
2007–	American Society for Microbiology
2004–	Genetics Society of America
2007–	Mycological Society of America
2001-	BioPerl developed. Co-Project leader (2001-2012).
2002–	Open Bioinformatics Foundation

Graduate Students:

2009-13	PhD student, Divya Sain. Genetics, Genomics, & Bioinformatics. Currently:
	Bioinformatics Scientist at Ambry Genetics.
2010-12	MS student, Yi (Zoe) Zhu. Genetics, Genomics, & Bioinformatics. Currently:
	Biostatistician at Biostatistical Consulting Inc.
2014	MS student, Elizabeth Holmes, Plant Pathology & Microbiology
2010-14	PhD student, Yizhou Wang. Plant Biology. Currently: Research Bioinformati-
	cian at Cedars Sinai.
2011-15	PhD student, Steven Ahrendt. Genetics, Genomics, & Bioinformatics. Cur-
	rently: Postdoc at UC Berkeley/LBNL & DOE Joint Genome Institute.
2015-	PhD Student, Sawyer Masonjones. Genetics, Genomics, & Bioinformatics
2015-	PhD Student, Nuttapom Pombubpa. Plant Pathology
2016-	PhD Student, Derreck Carter-House. Plant Pathology
2016-	PhD Student, Jesús Peña, Microbiology
2017-	PhD Student, Julia Adams, Plant Biology
2017-	PhD Student, Tania Kurbessoian, Microbiology

Postdoctoral Fellows:

2010–2011	John Abramyan, PhD. Currently: Assistant Professor, Univ of Michigan-Dearborn
2011-2014	Sofia Robb, PhD. Currently: Genomics Scientist at Stowers Institute.
2012-2014	Brad Cavinder, PhD. Currently: Research Associate at Michigan State Uni-
	versity
2012-2015	Peng Liu, PhD.
2013-	Jinfeng Chen, PhD
2013-2015	Ousmane Cissé, PhD - Swiss National Science Foundation Fellow. Currently:
	Postdoctoral Fellow at NIH Clinical Center.
2014–2015	Rodrigo Olarte. Currently: NSF Postdoctoral Fellow at Univ of Minnesota.
2017-	Yan Wang, PhD.

Visitors:

- 2010–2013 (4, 2-3 month vists) Anastasia Gioti, PhD, Dept of Evolution Biology, Uppsala University, SWEDEN
- 2010 (Spring) Suzanne Joneson, PhD, Department of Biology, University of Idaho
- 2011 (Spring) Edgar Medina Tovar, MSc Mycology and Phytopathology Lab, Universidad de Los Andes, Bogota, COLOMBIA
- 2012 (Summer) 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 (Spring) 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 (Fall) John Yinka Odebode, Visiting Graduate Student on a West African Research Assocation Fellowship, University of Lagos, NIGERIA.
- 2015 (Fall) 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

Teaching:

2010,2012	BIO5C - Introductory Ecology & Evolution
2011	BIO20 - The Dynamic Genome - Research module for <i>Neurospora</i> 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-	GEN220 - Computational Analysis of High Throughput Biological Data http:
	//biodataprog.github.io/
2016-	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 stu-
	dent 2010-12. Current MS Student, Claremont College
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: CityYear and matriculating MD student (TBD).
2012–2014	Megna Tiwari, UCR. Current: MS student at Cal State-Long Beach
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)
2015–17	Justin Shen, UCR.
2015–16	Serena Choi, UCR.
2015–17	Dillon McDonald, UCR Summer HSI-STEM (2015) and lab researcher
2015	Christina Uriarte, UCR. Pre-MARC USTAR student.
2015–17	Jericho Ortanez, UCR.
2015–16	Leandra Ibrahim, UCR.
2015–17	Deane Kim, UCR.
2016–17	Georgiy Smirnov, UCR.
2016–	Meng (Josh) Chung, UCR.
2017–	Estefania Caldera, UCR.
2018–	Lily Bautista, UCR.
2018–	Renata Haro, UCR.

Dissertation and thesis 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 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

2016

Amelia Lindsey, PhD, Entomology Patrick Schriener, PhD, GGB Eric Smith, PhD, GGB

Katherine Picard, Univ Prog in Genetics & Genomics (Duke University)

Eric Gordon, Entomology

ongoing Cynthia Dick, EEOB

Dereck O'Meara, EEOB

Yi Zhai, CMDB

Andrea Vu, Plant Pathology

Steven Bolaris, GGB

Dinusha Maheepala Mudalige, Plant Biology

Joseph Carrillo, Plant Pathology

Nuttapon Pombubpa, Plant Pathology *
Derreck Carter-House, Plant Pathology *

Sawyer Masonjones, GGB *
Jesús Peña, Microbiology *
Julia Adams, Plant Biology *
Tania Kurbessoian, Microbiology *

Caleb Hubbard, Medical and Veterinary Entomology

Alex Rajewski, Plant Biology Courtney Collins, Plant Biology

Nathan Robinett, Joint Doctoral Program in Evolutionary Biology, SDSU-

UCR

Edgar Medina, Univ Prog in Genetics & Genomics (Duke University)

Lluvia Vargas, Microbiología (CICESE, MEXICO) Dan Vanderpool, Biology (University of Montana)

Shannon Lynch, Environmental Studies (Univ of California-Santa Cruz)

Invited Seminars and conference presentations (2015–Present)

2018 · UC Riverside Data Science Center. Riverside, CA

- · University of Nebraska-Lincoln, Lincoln, NE
- · Creighton University, Omaha, NE

2017 · Dept Seminar. Botany & Plant Pathology. Oregon State University. Corvallis, OR

- \cdot 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 of Microbiology Microbe Meeting. New Orleans, LA
- · FASEB Microbial Pathogenesis. Aspen, CO.
- · Mycological Society of America 2017 Meeting. Athens, GA

- · 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.
 - · University Program in Genetics & Genomics. Duke University, Durham, NC.
 - · Dept of Plant Pathology. University of California, Davis, CA.
 - · University of Exeter. United Kingdom.
- 2015 · Exploring the genomic complexity and diversity of eukaryotes. EMBO Conference, San Feliu de Guixols, SPAIN.
 - \cdot XI CONGRESO NATIONAL DE MICOLOGIA, Sociedad Mexicana de Micologia. Merida, Yucatan, MEXICO. Plenary Speaker
 - · School of Plant Sciences, 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.
 - · Bioinformatics Seminar series. University of California, Los Angeles, CA.
 - · University of California, Merced, CA.
 - · 28th Fungal Genetics Conference. Asilomar Conference Center, Pacific Grove, CA.
 - · Center for Genome Research and Biocomputing Seminar. Oregon State University, Corvallis, OR.
 - · Dept of Microbiology and Molecular Genetics. Oklahoma State University, Stillwater, OK.

April 30, 2018