

## SARA BRANCO

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### EDUCATION

2010 - Ph.D. Evolutionary Biology. University of Chicago, USA. Advisors: Gregory Mueller and Richard Ree.

2010 - M.S. Evolutionary Biology. University of Chicago, USA. Advisors: Gregory Mueller and Richard Ree.

2001 - Undergraduate degree (*Licenciatura*) in Biology. University of Lisbon. Portugal.

### PROFESSIONAL EXPERIENCE

Starting 2017. Assistant Professor. Department of Microbiology and Immunology. Montana State University.

2015-present. Postdoctoral researcher. Université Paris Sud XI, France.

2011-2015. Postdoctoral researcher. University of California, Berkeley, USA.

2010-2011. Postdoctoral researcher. Biodiversity and Climate Research Center (BiK-F), Frankfurt, Germany.

2001-2004. Mycologist. Parque Natural de Montesinho. Bragança. Portugal.

### PUBLICATIONS

Rosendahl, Lisa M., **Branco, S.**, Chung, J.A., Glassman, S.I., Liao, H.-L., Peay, K.G., Smith, D.S., Talbot, J.M., Taylor, J.W., Vellinga, E.C., Vilgalys, R., Bruns, T.D. In press. *Survey of corticioid fungi in North American pinaceous forests reveals hyperdiversity, underpopulated sequence databases, and species that are potentially mycorrhizal*. Mycologia.

**Branco, S.**, Bi, K., Liao, H.-L., Gladieux, P., Badouin, H., Ellison, C.E., Nguyen, N., Vilgalys, R., Peay, K.G., Taylor, J.W., Bruns, T.B. In press. *Continental-level population differentiation and environmental adaptation in *Suillus brevipes**. Molecular Ecology; special issue in Microbial Local Adaptation (Invited Contribution).

Waring, B., Adams, R.I., **Branco, S.**, Powers, J. 2016. *Nitrogen cycling and soil communities along gradients of forest composition and age in regenerating tropical dry forests*. New Phytologist 209: 845-854.

Nguyen, N.H., Song, Z., Bates, S.T., **Branco, S.**, Tedersoo, L., Menke, J., Schilling, J., Kennedy, P. 2016. *FungGuild: an open annotation database for parsing high-throughput fungal molecular data by ecological guild*. Fungal Ecology 20: 241-248.

- Taylor, J.W., Hann-Soden, C., **Branco, S.**, Sylvain, I., Ellison, C. 2015. *Clonal reproduction in fungi*. Proceedings of the National Academy of Sciences USA 112: 8901-8908.
- Branco, S.**, Gladieux, P., Ellison, C., C., Kuo, A., LaButii, K., Lipzen, A., Grigoriev, I.V., Liao, H.-L., Vilgalys, R., Peay, K. G., Taylor, J. W., Bruns, T. D. 2015. *Genetic isolation between two recently diverged populations of a symbiotic fungus*. Molecular Ecology 24: 2747-2758. (Publication highlighted in Skrede&Brandsstrom-Durling. 2015. Mol Ecol, 24:2598-2600).
- Liao, H.-L., Chen Y., Bruns, T.D., Peay, K.G., Taylor, J.W., **Branco, S.**, Talbot, J.M., Vilgalys, R. 2014. *Metatranscriptomic analysis of ectomycorrhizal roots reveal genes associated with Piloderma-Pinus symbiosis: new methodologies for assessing gene expression in situ*. Environmental Microbiology 16:3730-3742.
- Schechter, S., **Branco, S.** 2014. *The ecology and evolution of mycorrhizal fungi in extreme soils*. In Rajakaruna, N., Boyd, R., Harris, T. (eds). Plant Ecology and Evolution in Harsh Environments. pp: 32-52.
- Nilsson, R .H., Hyde, K. D., Pawłowska, J., Ryberg, M., Tedersoo, L., Bjørnsgard, A., Alias, S. A., Alves, A., Anderson, C. L., Antonelli, A., Arnold, A. E., Bahnmann, B., Bahram, M., Bengtsson-Palme, J., Berlin, A., **Branco, S.**, Chomnunti, P., Dissanayake, A., Drenkhan, R., Friberg, H., Frøslev, T., Halwachs, B., Hartmann, M., Henricot, B., Jayawardena, R., Jumpponen, A., Kauserud, H., Koskela, S., Kulik, T., Liimatainen, K., Lindahl, B., Lindner, D., Liu, J.-K., Maharachchikumbura, S., Manamgoda, D., Martinsson, S., Neves, M. A., Niskanen, T., Nylander, S., Pereira, O. L., Pinho, D. B., Porter, T. M., Queloz, V., Riit, T., Sánchez-García, M., Sousa, F., Stefańczyk, E., Tadych, M., Takamatsu, S., Tian, Q., Udayanga, D., Unterseher, M., Wang, Z., Wikee, S., Yan, J., Larsson, E., Larsson, K.-H., Köljalg, U., Abarenkov, K. 2014. *Improving ITS sequence data for identification of plant pathogenic fungi*. Fungal Diversity 67: 11-19. (Publication highlighted in <https://explore.researchgate.net/display/news/2015/01/13/Uniting+fungi+data+worldwide>).
- Talbot, J.M., Bruns, T.D., Taylor, J.W., Smith, D.P., **Branco, S.**, Glassman, S.I., Erlandson, S., Vilgalys, R., Liao, H.-L., Smith, M., Peay, K.G. 2014. *Endemism and functional convergence across the North American soil mycobiome*. Proceedings of the National Academy of Sciences USA 111:6341-6346.
- Gladieux, P., Ropars, J., Badouin, H., Branca, A., Aguileta, G., Vienne, D., Vega, R., **Branco, S.**, Giraud, T. 2014. *Fungal evolutionary genomics provide insights into the mechanisms of adaptive divergence in eukaryotes*. Molecular Ecology 23:753-773. (Invited Review).
- Branco, S.**, Bruns, T.D., Singleton, I. 2013. *Fungi at a small scale: spatial zonation of fungal assemblages around single trees*. PLoS One 8(10):e78295.
- Bengtsson-Palme, J., Ryberg, M., Hartmann, M., **Branco, S.**, Wang, Z., Godhe, A., De Wit, P., Sanchez-Garcia, M., Ebersberger, I., Sousa, F., Amend, A., Jumpponen, A., Unterseher, M., Kristiansson, E., Abarenkov, K., Bertrand, Y. J. K., Sanli, K., Eriksson, K. M., Vik, U., Veldre, V., Nilsson, R. H. 2013. *Improved software detection and extraction of ITS1 and ITS2 from ribosomal ITS sequences of fungi and other eukaryotes for analysis of environmental sequencing data*. Methods in Ecology and Evolution, 4:914-919.
- Talbot, J. M., Bruns, T. D., Smith, D. P., **Branco, S.**, Glassman, S. I., Erlandson, S., Vilgalys, R., Peay, K. 2012. *Independent roles of ectomycorrhizal and saprotrophic communities in soil organic matter decomposition*. Soil Biology and Biochemistry, 57:282-291.

- Branco, S.** 2011. *Fungal diversity – an overview*. In Grillo & Venora (eds) The Dynamic Processes in Biodiversity – Case Studies in Evolution and Spatial Distribution. ISBN 978-953-307-772-7. (Open access chapter with over 3000 downloads).
- Nilsson, R. H., Veldre V., Wang, Z., Eckart, M., **Branco, S.**, Hartmann, M., Quince, C., Godhe, A., Bertrand, Y., Alfredsson, J. F., Larsson, K.-H., Köljalg, U., Abarenkov K. 2011. *A note on the incidence of reverse complementary fungal ITS sequences in the public sequence databases and a software program for their detection and reorientation*. Mycoscience, 52 (4):272-282.
- Branco, S.** 2010. *Serpentine soils promote ectomycorrhizal fungal diversity*. Molecular Ecology, 19:5566-5576.
- Branco, S.** & Ree, R. 2010. *Serpentine soils do not limit ectomycorrhizal fungal diversity*. PLoS ONE 5(7): e11757.
- Avis, P., **Branco, S**, Tang, Y., Mueller, G. 2009. *Pooled samples bias community descriptions*. Molecular Ecology Resources, 10:135-141.
- Branco, S.** 2009. *Are oaks locally adapted to serpentine soils?* Northeastern Naturalist 16 (special issue 5):329-340.
- Bidartondo, M, ..., **Branco, S.**, et al. 2008. *Preserving accuracy in GenBank*. Science 319:1616.
- Branco, S.** 2002. *Inventariação preliminar de comunidades macrofúngicas em matas da serra de Sintra*. Revista de Biologia, 20:179-190.

#### OTHER PUBLICATIONS (outreach, diversity and technical reports)

- Branco, S.**, Vellinga, E.C. 2015. *Gender balance in Mycology*. Inoculum. 66(5):1-3. ([http://msafungi.org/wp-content/uploads/Inoculum/66\(5\).pdf](http://msafungi.org/wp-content/uploads/Inoculum/66(5).pdf))
- Branco, S.** 2014. *Fungi and heavy metal pollution*. Mycena News. 65:07 (<http://www.mssf.org/mycena-news/pdf/1403mn.pdf>)
- Branco, S.** 2013. *Next generation sequencing. Or are how we will (maybe) finally understand fungal diversity*. Mycena News 64:06 (<http://www.mssf.org/mycena-news/pdf/1302mn.pdf>)
- Branco, S.** 2011. *Fungi of the state rock*. Mycena News 63:03 (<http://www.mssf.org/mycena-news/pdf/1111mn.pdf>)
- Branco, S.** 2004. *Inventariação e Caracterização do Património micológico do Parque Natural de Montesinho – estudo preliminar de comunidades macrofúngicas*. Parque Natural de Montesinho. Bragança, Portugal.

#### GRANTS

- 2017 – National Synchrotron Light Source II. Department of Energy. Proposal #301726. *Evolution of Zn tolerance in symbiotic mycorrhizal fungi*. (PI: Hui-Ling Liao; co-PIs: **Sara Branco**, Joske Ruytnix, Ryan Tappero).
- 2016 – Department of Energy, Joint Genome Institute, Community Science Program. *A genome atlas of the ectomycorrhizal genus Suillus: Phylogenetic diversity and population*

*genomics of a keystone guild of symbiotic forest fungi.* (PI: Nhu H. Nguyen; co-PIs: Peter Kennedy, **Sara Branco**, Rytas Vilgalys, Hui-Ling Liao, Jan V. Colpaert).

2016 - Department of Energy, Joint Genome Institute / Environmental Molecular Sciences Laboratory, Community Science Program. #49437 *Combined 'omics approaches for the study of ectomycorrhizal symbiosis between Suillus and Pinaceae, with emphasis on their role in nutrient cycling* (PI: Hui-Ling Liao; co-PIs: Rytas Vilgalys, **Sara Branco**, Nhu H. Nguyen, Thomas D. Bruns, John W. Taylor).

2008 - Doctoral Dissertation Improvement Grant. *Local Adaptation of Symbiotic Fungi to Serpentine Soils.* National Science Foundation. \$12,000.

## SCHOLARSHIPS AND FELLOWSHIPS

2016 - Marie Skłodowska-Curie Individual Postdoctoral Fellowship. European Commission. €173,076

2015 - Onsager Fellowship. Norwegian University of Science and Technology, Trondheim, Norway. €250,000. (Declined).

2014 - Postdoctoral Fellowship. LabEx TULIP; Universite de Toulouse III Paul Sabatier, France. €46,000. (Declined).

2013 - Berkeley Research Impact Initiative. University of California, Berkeley. \$1215.

2009-2010 - Field Museum Women in Science Graduate Fellowship. \$25,000.

2008 - Field Dreams. Field Museum Natural History Women's Board. \$1500.

2008 - Graduate Fellowship. Mycological Society of America. \$2000.

2007 - Small Grant. British Mycological Society. £300.

2006 - Hinds Fund. University of Chicago. Committee on Evolutionary Biology. - \$1800.

2005 - Hinds Fund. University of Chicago. Committee on Evolutionary Biology. - \$1500.

2005-2008 - Graduate Fellowship. Calouste Gulbenkian Foundation (Portugal). \$66,240.

2004-2005 - Luso/American Foundation/Fulbright in the US for Portuguese citizens. Fulbright Commission. Portugal. \$2500.

2004 - Visiting scholarship. Field Museum of Natural History. \$500.

## AWARDS

### General Awards

2015 - Best poster award. 28th Fungal Genetics Conference. Asilomar, CA, USA. \$100

2014 - Forest Fungal Ecology Postdoctoral Award. Mycological Society of America. \$2500.

2009 - Doolittle Harisson Award. University of Chicago. \$500.

2008 - Best Presentation Prize. 21<sup>st</sup> New Phytologist Symposium. The Ecology of Ectomycorrhizal Fungi. Montpellier, France.

2006 - Research Award. Committee on Evolutionary Biology/Pritzker Laboratory for Molecular Systematics and Evolution. \$1500.

2003 - Best Young Mycologist Poster Presentation. XIV Congress of European Mycologists. Yalta, Crimea, Ukraine.

## **Travel Awards**

- 2014 - Ecological Genomics Symposium Travel Award. American Genetics Association. \$500. (Declined).
- 2014 - Wikipedia Travel Grant. Fungal Environmental Sampling and Informatics Network. \$900.
- 2013 - Women Evolving the Biological Sciences. \$300.
- 2013 - Diversity Travel Award. Society for Molecular Biology and Evolution. \$1050.
- 2011 - Fundação Luso-Americana para o Desenvolvimento. Portugal. €1100.
- 2011 - BiK Net Outgoing Award. Biodiversity and Climate Research Center. Germany. €2187.
- 2010 - Committee on Evolutionary Biology, University of Chicago. \$915.
- 2010 - Fungal Environmental Sampling and Informatics Network. \$2000.
- 2010 - 9<sup>th</sup> International Mycological Congress. \$500.
- 2009 - Biological Sciences Division. University of Chicago. \$500.
- 2009 - Fungal Environmental Sampling and Informatics Network. \$1000.
- 2008 - 21<sup>st</sup> New Phytologist Symposium. The Ecology of Ectomycorrhizal Fungi. Montpellier, France. \$500.
- 2008 - Committee on Evolutionary Biology, University of Chicago. \$500.
- 2008 - Sixth International Conference on Serpentine Ecology. \$150.
- 2007 - Committee on Evolutionary Biology, University of Chicago. \$1500.
- 2007 - Mycological Society of America. \$500.

## **HONORS**

- 2010 - Scientist of the month. Association for Women in Science. [http://www.awis-chicago.org/community/may2010\\_scientist](http://www.awis-chicago.org/community/may2010_scientist).

## **INVITED SEMINARS**

- 2016 - *Fungal diversity, from communities to genes*. University of Tennessee. Knoxville, TN.
- 2016 - *Fungal diversity, from communities to genomes*. University of San Francisco. San Francisco, CA.
- 2016 - *Fungal diversity, from communities to genomes*. Montana State University. Bozeman, MT.
- 2015 - *Fungal diversity, from communities to genomes*. Universite Paris-Sud, Orsay, France.
- 2015 - *Opportunities and challenges in molecular biodiversity research in the 21st century*. Norwegian University of Science and Technology. Trondheim, Norway.
- 2015 - *Fungal diversity, from communities to genomes*. Arizona State University, Tempe, AZ.
- 2015 - *Genetic isolation between two recently diverged populations of a symbiotic fungus*. University of California, Berkeley, CA.
- 2014 - *Adaptation in symbiotic fungi*. LabEx TULIP. Universite de Toulouse III Paul Sabatier. Toulouse, France.

- 2014 - *Adaptation in symbiotic fungi: from communities to populations*. Colorado State University, Fort Collins, CO.
- 2013 - *Recent divergence in fungal populations*. University of California, Berkeley, CA.
- 2013 - *Fungal diversity - from populations to communities*. Duke University, Durham, NC.
- 2011 - *Serpentine soils and the ecology and evolution of fungal-plant symbiotic partners*. Un. Lisboa, Portugal.
- 2011 - *Serpentine soils and the ecology and evolution of fungal-plant symbiotic partners*. Un. Coimbra, Portugal.
- 2011 - *Serpentine soils and the ecology and evolution of fungal-plant symbiotic partners*. Universität Basel, Switzerland.
- 2010 - *Serpentine soils and the ecology and evolution of fungal-plant symbiotic partners*. Field Museum of Natural History. Chicago, IL.
- 2009 - *Serpentine soils and the ecology and evolution of mycorrhizal symbioses*. Morton Arboretum, Lisle, IL.
- 2008 - *Fungi in extreme environments*. Illinois Mycological Association. Chicago, IL.
- 2006 - *Evolution of symbiotic fungi in extreme environments*. University of Siena. Italy.
- 2002 - *Fungi*. University of Coimbra. Portugal.

## PRESENTATIONS IN SCIENTIFIC MEETINGS

- 2017 - **Branco, S.**, Bi, K., Liao, L.-H., Gladieux, P., Badouin, H., Ellison, C., Nguyen, N., Vilgalys, R., Peay, K.G., Taylor, J., Bruns, T.D. *Continental-level population differentiation and environmental adaptation in the mushroom Suillus brevipes*. 29<sup>th</sup> Fungal Genetics Meeting. Asilomar, CA, USA. (Invited oral presentation).
- 2017 - **Branco, S.**, Badouin, H., Gouzy, J., Rodriguez de la Vega, R.C., Singueza, S., Coelho, M.A., Hood, M.E., Giraud, T. *Multiple evolutionary strata on mating-type chromosomes despite lack of sexual antagonism*. 29<sup>th</sup> Fungal Genetics Meeting. Asilomar, CA, USA. (Poster presentation).
- 2017 - Ke, Y.-H., Rojas, J.A., Liao H.-L., Nguyen, N., Kennedy, P., **Branco, S.**, Bruns, T.D., Vilgalys R. *Mating system and mating gene evolution in Suillus luteus*. 29<sup>th</sup> Fungal Genetics Meeting. Asilomar, CA, USA. (Poster presentation).
- 2017 – Carver, A., Bruns, T.D., Gregoriev, I., Stillman, K., **Branco, S.**, Kuo, A. Comparative genomic analyses of two pyrophilous fungi. 29<sup>th</sup> Fungal Genetics Meeting. Asilomar, CA, USA. (Poster presentation).
- 2016 - **Branco, S.**, Badouin, H., Gouzy, J., Rodriguez de la Vega, R.C., Singueza, S., Coelho, M.A., Hood, M.E., Giraud, T. *Multiple evolutionary strata on mating-type chromosomes despite lack of sexual antagonism*. Evolutionary genomics and systems biology: bringing together theoretical and experimental approaches. Jacques Monod Conferences. Roscoff, France. (Poster presentation).
- 2016 - Liao, L.-H., Talbot, J.M., Bruns, T.D., Taylor, J.W., Peay, K.G., **Branco, S.**, Hoydt, D.W., Nicora, C.D., Purvine, S.O., Kuo, A., Barry, K., Grigoriev, I., Vilgalys, R. *Unraveling the core mechanisms of *Suillus-Pinus* symbiosis through integrated metatronics*. EMSL Integration 2016: Multiscale Ecosystem Analysis and Design. Richland, Washington, USA. (Poster presentation).

- 2016 - **Branco, S.**, Taylor, J.W., Bruns, T.D. *Continental-level population differentiation and environmental adaptation in Suillus brevipes*. Mycological Society of America. Berkeley, California, USA. (Oral presentation).
- 2016 - Peay, K.G., Talbot, J.M., **Branco, S.**, Glassman, S., Taylor, J.W., Vilgalys, R., Bruns, T.D. *Dispersal influences fungal biodiversity at multiple spatial and genetic scales*. Mycological Society of America. Berkeley, California, USA. (Oral presentation).
- 2016 - Cheeke, T.E., **Branco, S.**, Haelewaters, D., Natvig, D., Maltz, M., Rodriguez, S.C., May, G. *Diversity in the Mycological Society of America*. Mycological Society of America. Berkeley, California, USA. (Poster presentation).
- 2016 - **Branco, S.**, Taylor, J. Bruns, T. *Continental-level population differentiation and environmental adaptation in Suillus brevipes*. 13th European Conference on Fungal Genetics. Paris, France (Oral presentation).
- 2015 - **Branco, S.**, Taylor, J. Bruns, T. *Genetic isolation between two recently diverged populations of a symbiotic fungus*. 28th Fungal Genetics Conference. Asilomar, CA, USA (Poster presentation).
- 2014 - **Branco, S.**, Taylor, J. W., Bruns, T. D. *Recent divergence in fungal populations*. Evolution. Raleigh, NC, USA (Oral presentation).
- 2014 - **Branco, S.**, Taylor, J. W., Bruns, T. D. *Recent divergence in fungal populations*. Mycological Society of America. East Lansing, MI, USA. (Oral presentation).
- 2014 - **Branco, S.** Fungal life history traits: growth and dispersal. Mycological Society of America. East Lansing, MI, USA. (Invited oral presentation).
- 2014 - **Branco, S.**, Taylor, J. W., Bruns, T. D. *Recent divergence in fungal populations*. Population genomics: fungi as models. Universite Paris Sud, Orsay, France. (Oral presentation).
- 2014 - **Branco, S.**, Taylor, J. W., Bruns, T. D. *Recent divergence in fungal populations*. Joint Genome Institute User Meeting. Walnut Creek, CA, USA. (Poster presentation).
- 2013 - **Branco, S.** *Recent divergence in fungal populations*. IX Encontro Nacional de Biologia Evolutiva. Oeiras, Portugal (Oral presentation).
- 2013 - **Branco, S.** *Detecting nuclear imbalance in dykariotic fungi*. IX Encontro Nacional de Biologia Evolutiva. Oeiras, Portugal (Oral presentation).
- 2013 - Liao, H. L., Bruns, T., Peay, K. G., Taylor, J., **Branco, S.**, Talbot, J., Smith, D., Vilgalys, R. *Host-specific relationships between Suillus and Pinus species*. Mycological Society of America. Austin, TX, USA (poster presentation).
- 2013 - **Branco, S.**, Bruns, T., Singleton, I. *Fungi at a small scale: spatial zonation of fungal assemblages around single trees*. Eukaryotic -Omics - SMBE satellite meeting. Davis, CA, USA (Oral presentation).
- 2013 - **Branco, S.**, Taylor, J. Bruns, T. Population genomics of *Suillus brevipes*. 27th Fungal Genetics Conference. Asilomar, CA, USA (Poster presentation).
- 2012 - **Branco, S.**, Singleton, I., Bruns, T. *Fungi at a small scale: spatial zonation of fungal assemblages around single trees*. 4<sup>th</sup> Argonne National Laboratory Soil Metagenomics Meeting. Bloomingdale, IL, USA (Oral presentation).
- 2011 - **Branco, S.** *Serpentine soils promote mycorrhizal fungal diversity*. Mycological Society of America. Fairbanks, AK, USA (Oral presentation).

- 2011 - **Branco, S.** *Serpentine soils and the ecology and evolution of fungal-plant symbiotic partners*. 7th International Serpentine Ecology Conference. Coimbra, Portugal. (Oral presentation).
- 2010 - **Branco, S.** *Serpentine soils promote mycorrhizal fungal diversity*. Encontro Nacional de Biologia Evolutiva. Lisbon, Portugal (Poster presentation).
- 2011 - **Branco, S.** *Serpentine soils promote mycorrhizal fungal diversity*. International Mycological Congress. Edinburg, UK (Poster presentation).
- 2010 - **Branco, S.** *Serpentine soils do not limit ectomycorrhizal fungal diversity*. Evolution, Portland, OR, USA (Oral presentation).
- 2010 - **Branco, S.** *Serpentine soils and the ecology and evolution of mycorrhizal symbioses*. Challenges in Environmental Molecular Microbiology. Argonne National Laboratory, IL, USA (Oral presentation).
- 2009 - **Branco, S.** *Serpentine soils do not limit ectomycorrhizal fungal diversity*. European Society for Evolutionary Biology 12<sup>th</sup> meeting. Turin, Italy (poster presentation).
- 2009 - **Branco, S.** *Serpentine soils do not limit ectomycorrhizal fungal diversity*. Mycology and Botany. Snowbird, UT, USA (Oral presentation).
- 2009 - **Branco, S.** *Serpentine soils do not limit ectomycorrhizal fungal diversity*. Evolution. Moscow, ID, USA (Oral presentation).
- 2008 - **Branco, S.** *Serpentine soils do not limit ectomycorrhizal fungal diversity*. IV Encontro Biologia Evolutiva. Instituto de Biologia Molecular e Celular. Porto, Portugal (Oral presentation).
- 2008 - **Branco, S.** *Ecophylogenetics of ectomycorrhizal fungi and extreme environments*. 21<sup>st</sup> New Phytologist Symposium. The Ecology of Ectomycorrhizal Fungi. Montpellier, France (Poster presentation).
- 2008 - **Branco, S.** *Phylogenetic community structure of mycorrhizal fungi and extreme environments*. Evolution. Minneapolis, MN, USA (Oral presentation).
- 2008 - **Branco, S.** *Are oaks locally adapted to serpentine soils?* 6<sup>th</sup> International Conference on Serpentine Ecology. Bar Harbor, ME, USA (Oral presentation).
- 2008 - **Branco, S.** *Is there a serpentine ectomycorrhizal community?* 6<sup>th</sup> International Conference on Serpentine Ecology. Bar Harbor, ME, USA (Oral presentation).
- 2007 - **Branco, S.** *Serpentine soils as a selective pressure for ectomycorrhizal fungi*. XVI Congress of European Mycologists. St Petersburg, Russia (Oral presentation).
- 2007 - **Branco, S.** *Is there a serpentine ectomycorrhizal community?* Mycological Society of America Meeting. Baton Rouge, LA (Oral presentation).
- 2006 - **Branco, S.** *Adaptação local de fungos ectomicorrícos a ambientes extremos*. II Encontro Nacional de Biologia Evolutiva. Vairao. Portugal (Oral presentation).
- 2006 - **Branco, S.** *Ectomycorrhizal Fungal Communities from Serpentine and Non-Serpentine Mediterranean Oak Forests*. V International Conference on Serpentine Ecology. Siena, Italy (Poster presentation).
- 2006 - **Branco, S.** *Ectomycorrhizal Fungal Communities from Serpentine and Non-serpentine Mediterranean Oak Forests*. 5<sup>th</sup> International Conference on Mycorrhiza. Granada, Spain (Poster presentation).
- 2006 - **Branco, S.** *Mediterranean serpentine and non-serpentine ectomycorrhizal fungal communities*. 8<sup>th</sup> International Mycological Congress. Cairns, Australia (Poster presentation).

- 2005 - **Branco, S.** *Macrofungal Communities of Northeast Portugal*. Mycological Society of America Meeting. Hilo, Hawaii, USA (Poster presentation).
- 2003 - **Branco, S.** *A Preliminary Study of the Macrofungal Communities of Northeast Portugal*. XIV Congress of European Mycologists. Yalta, Crimea, Ukraine (Poster presentation).
- 2003 - Baptista, P., **Branco, S.** & Martins, A. *Evaluation of the biodiversity and relative abundance of mycological flora in chesnut trees, Castanea sativa Mill., in Northeast Portugal: Preliminary Results*. 4<sup>th</sup> International Conference on Mycorrhiza. Montreal, Canada (Poster presentation).
- 2003 - Baptista, P., **Branco, S.** & Martins, A. *Preliminary evaluation of edible mushroom diversity and production in the Northeast Portugal*. 3<sup>rd</sup> International Workshop on Edible Mycorrhizal Mushrooms: Ecology, Physiology and Cultivation. Victoria, Canada (Poster presentation).
- 2002 - **Branco, S.**, Rodrigues, A. P. *Preliminary Study of NE Portugal's Macrofungal Communities*. Seventh International Mycological Congress. Oslo, Norway (Poster presentation).
- 2002 - Baptista, S., **Branco, S.**, Neves, S., Rodrigues, A. P. *Measuring Macrofungal Diversity in Four Portuguese Protected Areas*. Seventh International Mycological Congress. Oslo, Norway (Poster presentation).
- 2001 - **Branco, S.**, Barata, M. *Preliminary Inventory of Serra de Sintra's Macrofungal Communities*. Sixth National Ecology Meeting. Lisbon, Portugal (Poster presentation).
- 1999 - Gante, H., Brites, D., **Branco, S.** & Correia, O. *Structure and Distribution of Male and Female Individuals of Corema album (Empetraceae)*. Fourth National Ecology Meeting. Aveiro, Portugal (Poster presentation).

## WORKSHOPS

- 2014 - Joint Genome Institute Fungal Genomics. Walnut Creek, CA, USA.
- 2013 - Women Evolving Biological Sciences National Symposium. Selected participant. NESCent, Durham, NC, USA.
- 2012 - Galaxy 101: Data Integration, Analysis, and Sharing. Center for Genomic Resources Laboratory. University of California, Berkeley. USA.
- 2012 - Next Generation Sequence Data Analysis Training Workshop (Qiime, MG-Rast). 4<sup>th</sup> Argonne National Laboratory Soil Metagenomics Meeting. Bloomingdale, IL, USA.
- 2012 - Berkeley Biophysics Python Module. University of California, Berkeley. USA.
- 2011 - Genomic Tools (Unix; Genotype and SNP Calling; Genome Assembly). Center for Genomic Resources Laboratory. University of California, Berkeley. USA.
- 2011 - Metamycology and beyond: using fungi in educational contexts. FESIN Research Network. Fairbanks, AK, USA.
- 2011 - Workshop on Comparative Genomics. Cesky Krumlov, Czech Republic.
- 2010 - Metagenomic Data Analysis. Joint FESIN/Nordforsk Research Network Workshop. Edinburgh, Scotland.
- 2009 - Ecological Approaches to Analyzing Complex Community Datasets. FESIN. Snowbird, UT, USA.

2009 - Evolutionary Tree Visualization. Biodiversity Synthesis Center. Field Museum of Natural History. Chicago, IL, USA.

## TEACHING EXPERIENCE

- 2016 - Invited contributor. *Ecology in English* (MS2S1). Master Program in Ecology, Biodiversity and Evolution. Universite de Paris Sud. France
- 2015 - Instructor. QB3 *Winter Bioinformatics Bootcamp* (python). University of California, Berkeley.
- 2014 - Instructor. QB3 *Introduction to Programming for Bioinformatics Bootcamp* (python). University of California, Berkeley.
- 2014 - Guest lecturer. *Comparative Genomics*. Department of Plant and Microbial Biology, University of California, Berkeley.
- 2013 - Guest speaker. *Revolutions*. Department of Spanish and Portuguese, University of California, Berkeley.
- 2013 - Tutor. Berkeley High School. Berkeley, California.
- 2013 - Visiting Scientist. *Mushrooms of California*. University of California, Berkeley.
- 2013 - Teaching assistant. QB3 *Introduction to Programming for Bioinformatics Bootcamp* (python). University of California, Berkeley.
- 2011 - Visiting Scientist. *Mushrooms of California*. University of California, Berkeley.
- 2009 - Teaching Assistant. *Biological Diversity*. University of Chicago.
- 2009 - Teaching Assistant. *Environmental Ecology*. University of Chicago.
- 2003 - Lecturer and lab manager. *Forest Products*. Agriculture School. Polytechnic Institute of Bragança. Portugal.
- 2002 - Lecturer and lab manager. *Introduction to Macrofungal Studies*. Agriculture School. Polytechnic Institute of Bragança. Portugal.
- 2002 - Invited lecturer. *Non Vascular Plants*. University of Coimbra. Portugal.
- 2000 - Lab assistant. *Mycology*. University of Lisbon. Portugal.

## MENTORING

- 2016 - Fantin Carpentier. Ph.D. student. Laboratory of Ecology, Systematics and Evolution. Universite de Paris Sud.
- 2016 - Thivyia Thiruvalluvar. M.S. student. Laboratory of Ecology, Systematics and Evolution. Universite de Paris Sud.
- 2015 - Dabao Lu. M.S. student. Department of Botany and Plant Pathology. Oregon State University.
- 2014 - Akiko Carver, Ph.D. student. Department of Plant and Microbial Biology, University of California, Berkeley.
- 2013 - Gabriel Rosenthal, Ph.D. student. Department of Plant and Microbial Biology, University of California, Berkeley.
- 2013 - Monika Fischer, Ph.D. student. Department of Plant and Microbial Biology, University of California, Berkeley.
- 2012 - William Moore, Ph.D. student. Department of Plant and Microbial Biology, University of California, Berkeley.

2008 - Lorenzo Pecoraro, Ph.D. student. University of Siena, Italy

## SERVICE

2016 - *Ad hoc* Proposal Reviewer. Faculty Early Career Development (CAREER) Program. National Science Foundation.

2016 - Student presentation judge. Mycological Society of America. Berkeley, CA, USA.

2015-present - Mentor Student Travel Award Committee. Mycological Society of America.

2015-present - Diversity Committee. Mycological Society of America.

2015 - *Ad hoc* Proposal Reviewer. Long Term Research in Environmental Biology. National Science Foundation.

2013-2014 - Department of Plant and Microbial Biology Postdoctoral Committee (University of California, Berkeley).

2013 - External Examiner. *Molecular Investigations to Characterize Ectomycorrhizal Fungal Communities Associated with some Deciduous Trees of Galyat, Pakistan*. Sobia Ilyas, Ph.D. Degree in Botany. University of the Punjab, Pakistan.

2013 - Volunteer for the UC Berkeley post-doctoral union (UAW5810).

2012 - Referee for poster presentations at the North American Congress for Conservation Biology.

2011-2014. Secretary for Associação Portuguesa de Biologia Evolutiva, Portugal.

2011 - Student presentation judge. Mycological Society of America. Fairbanks, AK, USA.

## Reviewer for the following journals:

*American Naturalist*

*New Phytologist*

*Biodiversity and Conservation*

*Mycorrhiza*

*Canadian Journal of Microbiology*

*PLoS One*

*Fungal Ecology*

*Plant Ecology and Diversity*

*Fungal Biology*

*Mycological Research*

*G3: Genes | Genomes | Genetics*

*Mycologia*

*Journal of Evolutionary Biology*

*Scientific Reports*

*Molecular Ecology*

*Source Code for Biology and Medicine*

## SELECTED SCIENCE OUTREACH

2016 - Professional Development Workshop. Panelist. Mycological Society of America. Berkeley, California.

2015 - Expand Your Horizons. *Mushrooms have DNA too!* Workshop Leader. University of California. Berkeley, California.

2014 - *Understanding fungal diversity from a population perspective*. Fungus Federation of Santa Cruz. Santa Cruz, California.

2014 - Dinner With a Scientist. Oakland Unified School District. Oakland, California.

2014 - *Understanding fungal diversity from a population perspective*. Bay Area Mycological Society. Berkeley, California.

2014 - Expand Your Horizons. *Exploring Genetics and Genomics*. Workshop Leader. University of California. Berkeley, California.

2013 - Science, Neat! – *Fungi!* El Rio Bar, San Francisco, California.

2013 - Science careers. Asian Heritage Group. Mt Diablo High School. Concord, California.

2013 - Microbiology hands-on. English Language Advisory Council. Mt Diablo High School. Concord, California.

2012 - 2014 - Member of outreach chapter for the Associação Portuguesa de Biologia Evolutiva.

2012 - Pleasant Hill Elementary Science Night. Pleasant Hill, California.

2011 - Volunteer at the 42th Annual Fungus Fair – Mycological Society of San Francisco. Berkeley, California.

2010 - Science Career Showcase. Foreman High School. Chicago.

2010 - Featured scientist. DNA Discovery Center. Field Museum of Natural History. Chicago.

2010 - Members Night. Field Museum of Natural History. Chicago.

2009 - Science Day. Roosevelt University. Chicago.

2009 - Field Ambassador Expedition IV (Botany). Teacher Professional Development Program. Field Museum Natural History. Chicago.

2009 - Talk to the scientist hour. DNA Discovery Center. Field Museum Natural History. Chicago.

2008 - Scientists at the schools. Blaine Elementary School / Field Museum Natural History. Chicago.

2008 - Cimby Science Summit. Field Museum Natural History. Chicago.

2007 - Rachel Carlson Science Summit. Field Museum Natural History. Chicago.

2007-2010 - Field Museum of Natural History behind the scenes tours (for high school and college students). Chicago.

## PROFESSIONAL AFFILIATIONS

*International Mycological Association*  
*Mycological Society of America*  
*European Mycological Association*  
(Founder member)  
*European Society for Evolutionary Biology*

*The Society for the Study of Evolution*  
*Associação Portuguesa de Biologia Evolutiva* (Founder member)  
*Genetics Society of America*  
*Marie Curie Alumni Association*

## LANGUAGE SKILLS

Fluent in Portuguese and English (spoken and written)  
Proficient in French and Spanish (spoken).

## REFERENCES

**Tatiana Giraud**, Departement Genetique et Ecologie Evolutives, Laboratoire Ecologie, Systematique et Evolution, University de Paris-Sud (France). [tatiana.giraud@u-psud.fr](mailto:tatiana.giraud@u-psud.fr); +33 1 69 15 56 69.

**Thomas D. Bruns**, Department of Plant and Microbial Biology, University of California Berkeley (CA, USA). [pogon@berkeley.edu](mailto:pogon@berkeley.edu); 510 642 7987.

**John W. Taylor**, Department of Plant and Microbial Biology, University of California Berkeley (CA, USA). [jtaylor@berkeley.edu](mailto:jtaylor@berkeley.edu); 510 642 8441.

**Gregory M. Mueller**, Chicago Botanical Gardens (IL, USA). [gmueller@chicagobotanic.org](mailto:gmueller@chicagobotanic.org); 847 835 8226.