

# Javier Felipe Tabima R., Ph.D.

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Clark University.  
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## Education:

**2018**            **Ph.D. Botany and Plant Pathology.** Oregon State University. Corvallis, OR.  
**2010**            **M.Sc. Biological Sciences.** Universidad de los Andes. Bogotá, Colombia.  
**2008**            **B.Sc. Biology.** Universidad de los Andes. Bogotá, Colombia.

## Research Interests

Evolutionary Genomics  
Genomics, Bioinformatics, and Molecular Biology  
Phylogenetics and Population genomics  
Fungal Biology  
Plant pathogen molecular interactions  
Development of tools for genomics in R, BASH and PERL ([github.com/Tabima](https://github.com/Tabima))

## Research Experience:

### **Department of Biology, Clark University. Assistant Professor.**

Evolution, genomics, and population genomics of fungal species: Identification and evolution of secondary metabolites in Zygomycota

### **Department of Botany and Plant Pathology, Oregon State University. Postdoctoral scholar.**

Evolution, genomics, and population genomics of fungal species: Identification and evolution of secondary metabolites in Zygomycota

Two-year appointment: 2018-2020

**Postdoctoral mentor:** Joseph Spatafora, Ph.D

### **Department of Botany and Plant Pathology, Oregon State University. Postdoctoral scholar.**

Genomics of *Septoria musiva*: Using genomics tools for the identification of population genetics, expression profiles and GWAS in plant-patogen interactions.

Two-year appointment: 2018-2020

**Postdoctoral mentor:** Jared LeBoldus, Ph.D.

### **Department of Botany and Plant Pathology, Oregon State University. Doctoral dissertation:**

Comparative genomics and population genomics of *Phytophthora rubi* and *P. fragariae*. **2013 - 2017.**

**USDA-HCRL, Corvallis, OR.** Research assistantship: Host speciation of sister *Phytophthora* species using genomics, population genetics and phylogenetics. **2012 - 2013.**

### **Laboratory of Mycology and Phytopathology (LAMFU), Universidad de los Andes, Bogotá, Colombia.**

Research assistant in molecular evolution of fungi, bacteria and oomycetes.

Phylogenetics and population genetics of plant and human pathogens (*Cordyceps spp.*, *Malassezia spp.*, *Colletotrichum spp.*, *Phytophthora spp.*). **2010 - 2013.**

### **Biological Computing and Evolution group, Universidad de los Andes, Bogotá, Colombia.**

Research assistant in the development of pipelines computational biology and genomics:

Applications of high-throughput computing in the biological sciences. **2010 – 2013**

**Universidad de los Andes.** Masters Thesis: Adaptive radiation in Eastern Pacific sea fans. Reticulate evolution and hybridization in corals of the genus *Pacificorgia*. **2008-2010**

### **Professional Experience:**

**Reviewer.** PeerJ. **2019 – Today**

**Reviewer.** Diversity. MDPI. **2019 – Today**

**Reviewer.** Annals of Applied Biology. **Association of Applied Biologists.** **2019 – Today**

**Reviewer.** Mycologia. **Mycological Society of America.** **2017 – Today**

**Reviewer.** Phytopathology. **American Phytopathological Society.** **2015 – Today**

**Reviewer.** Plant Disease. **American Phytopathological Society.** **2015 – Today**

**ZyGoLife Consortium.** Consortium to study the genomics and evolution of Zygomycota species. **2018 - Today**

**Phytophthora Genus Sequencing Consortium.** Consortium to understand the genomics and evolution of multiple species of the devastating plant pathogen genus *Phytophthora*. **2013 - Today**

**USDA-HCRL, Corvallis, OR.** Evolution, genomics and population dynamics of *Phytophthora* species, with emphasis in pathogen centers of origin and worldwide dispersal **2012 - 2013.**

**Colombian Center for Genomics and Bioinformatics of Extreme Environments (GEBIX), Bogotá, Colombia.** Metagenomics on extreme environments. Barcoding analysis and diversity in extreme soils. **2011-2012**

**Researcher at CENICAFE (Research center of coffee, National federation of Coffee Growers). Chinchiná, Colombia.** Genomics and transcriptomics of *Hemilea vastatrix* (Coffee Rust). **2011 – 2012**

### **Teaching Experience:**

**Main Instructor.** MBB101: Introduction to Bioinformatics. **Clark University, Worcester, MA.** **Fall, 2020**

**Guest Lecturer.** Oomycete and Slime Mold biology. **Mycology. Oregon State University, Corvallis, OR. Fall, 2019**

**Guest Lecturer.** Genomics and molecular evolution. **Ecosystem Genomics course. Oregon State University, Corvallis, OR. Spring, 2019**

**Guest Lecturer.** Genomics and molecular evolution. **Ecosystem Genomics course. Oregon State University, Corvallis, OR. Spring, 2019**

**Guest Lecturer.** Oomycete and Slime Mold biology. **Mycology. Oregon State University, Corvallis, OR. Fall, 2018**

**Instructor.** Workshop in Population Genetics in R. **American Phytopathological Society annual meeting. San Antonio, TX. 2017.**

**Special Assistant Instructor.** Special Topics: Techniques in Genotyping-By-Sequencing. **Graduate course (MCB 599). Oregon State University, Corvallis, OR. Spring, 2016**

**Teaching assistant.** Introductory Plant Pathology. **Undegraduate/Graduate course (BOT 350/550). Oregon State University, Corvallis, OR. Fall, 2016**

**Instructor.** Summer Oomycete Bioinformatics Training Workshop. **Virginia Tech University, Blacksburg, VA. 2015**

**Invited instructor.** Genomics and molecular evolution. **Industry course. Corporation Center for Research in Palm Oil (CENIPALMA). Bogotá, Colombia. 2011**

**Laboratory teacher.** Systematics and phylogenetics. **Undergrad course, Universidad de los Andes, Bogotá, Colombia. 2009 – 2011.**

**Teaching assistant.** Genomics and Bioinformatics. **Graduate course, Universidad de los Andes, Bogotá, Colombia. 2010 – 2012**

**Invited teacher. Section of molecular evolution: Mycology. Undergrad course, Universidad de los Andes, Bogotá, Colombia. 2009 – 2012**

**Leading organizer.** Tutorial of genomics and evolutionary methods in plant pathogens. **Undergrad course, Universidad de los Andes, Bogotá, Colombia. 2009 – 2011**

### **Posters and presentations:**

**Oral Presentation** “Prediction and identification of secondary metabolism production in the cosmopolitan gut-associated zygomycete *Basidiobolus* (Basidiobolaceae, Zoopagomycota)”. Meeting of the Mycological Society of America, 2019.

**Poster Presentation** “Population genomic analyses reveal human-mediated transport, and differences in virulence of *Sphaerulina musiva* among poplar plantations in North America”. Meeting of the Mycological Society of America, 2019.

**Oral Presentation** “Prediction and identification of secondary metabolism production in the cosmopolitan gut-associated zygomycete *Basidiobolus* (Basidiobolaceae, Zoopagomycota)”. Fungal Genetics Conference. 2019.

**Poster Presentation** “Prediction and identification of secondary metabolism production in the cosmopolitan gut-associated zygomycete *Basidiobolus* (Basidiobolaceae, Zoopagomycota)”. Fungal Genetics Conference. 2019. BEST POSTDOCTORAL POSTER POPULATION AND EVOLUTIONARY GENETICS SESSION.

**Poster Presentation** “Population genomic analyses reveal human-mediated transport, and differences in virulence of *Sphaerulina musiva* among poplar plantations in North America”. Fungal Genetics Conference. 2019.

**Oral Presentation** “Population dynamics of *Phytophthora rubi* indicate high rates of migration between states and nurseries in the Western United States”. American Phytopathological Society annual meeting. 2017.

**Oral Presentation** “Population dynamics of *Phytophthora rubi* indicate high rates of migration between states and nurseries in the Western United States”. Oomycete Genomics Network Meeting. 2017.

**Invited Oral Presentation** “Searching for genomic signatures of host jumping onto raspberry and strawberry in two *Phytophthora* sister taxa”. American Phytopathological Society meeting. 2016. Representing APS Pacific Division. Special session: “Plant Pathologist of the Future”

**Oral Presentation** “Searching for genomic signatures of host jumping onto raspberry and strawberry in two *Phytophthora* sister taxa”. American Phytopathological Society meeting. 2015. FIRST PRIZE WINNER. APS Pacific Division Oral competition

**Poster presentation.** “A best practices pipeline for GBS variant calling in population genomic studies”. Center for genomic and Biocomputing research Fall conference, Oregon State University. 2015

**Poster presentation.** “Genomic signatures of host jumping to raspberry and strawberry in two ancestrally related *Phytophthora* pathogens”. Center for genomic and Biocomputing research Fall conference, Oregon State University. 2014

**Poster presentation.** “Phytophthora-ID 2.0: Novel open source tools for *Phytophthora* species and genotype identification”. Center for genomic and Biocomputing research Fall conference, Oregon State University. 2014

**Poster presentation.** “The origin of *Phytophthora infestans* using phylogeographical methods”. American Phytopathological Society meeting, Providence, RI. 2014

**Oral Presentation** “Phylogeographical history of the late blight disease oomycete: *Phytophthora infestans*.”. First Colombian Computational Congress, Bogotá, Colombia. 2012. **FIRST PRIZE WINNER**

## **Awards and Recognitions:**

**Best Postdoctoral Poster.** 2019. Fungal Genetics Conference, Population and Evolutionary Genetics Session.

**CAS Savery Outstanding Doctoral Student Award. 2017.** College of Agricultural Sciences, Oregon State University

**Lenore Bayley Fellow (2016-2017, \$4000).** Oregon State University.

**Travel Award (\$500).** American Phytopathological Society Foundation travel award to assist the American Phytopathological Society. San Antonio, Texas. 2017

**Anita Summers Travel Award. 2017. (\$1000).** Botany and Plant Pathology Department. College of Agricultural Sciences. Oregon State University

**Anita Summers Travel Award. 2016. (\$1000).** Botany and Plant Pathology Department. College of Agricultural Sciences. Oregon State University

**Larry Moore Travel Award. 2016. (\$500).** Botany and Plant Pathology Department. College of Agricultural Sciences. Oregon State University

**Invited Oral Presentation** “Searching for genomic signatures of host jumping onto raspberry and strawberry in two *Phytophthora* sister taxa”. American Phytopathological Society meeting. 2016. Representing APS Pacific Division. Special session: “Plant Pathologist of the Future”

**Representative of CAS graduate students at 2016 Board of Trustees dinner.** Oregon State University, 2016.

**CAS Registry of Distinguished Students.** College of Agricultural Sciences. Oregon State University. 2016

**Representative of the College of Agriculture on the 2016 Board of Trustees meeting.** Oregon State University. 2016

**Plant Pathologists of the Future: Showcasing the Top Graduate Students from APS Division Meetings.** American Phytopathological Society. 2016

**First prize. Oral Presentation** “Searching for genomic signatures of host jumping onto raspberry and strawberry in two *Phytophthora* sister taxa”. **American Phytopathological Society meeting. Pacific Division.**

**Travel Award (\$500).** American Phytopathological Society Foundation travel award to assist the American Phytopathological Society. Pasadena, California. 2015

**Travel Award (\$500).** American Phytopathological Society Pacific division to assist the American Phytopathological Society. Pasadena, California. 2015

**Travel Award (\$1200).** Oomycete Workshop on genomics. Virginia Tech, Virginia. 2014

**First prize. Oral Presentation** “Phylogeographical history of the late blight disease oomycete: *Phytophthora infestans*.”. First Colombian Computational Congress, 2012.

**Travel Award (\$500).** Open Science Grid Summer School. University of Wisconsin, Madison. 2011

**Research award, Graduate School Startup grant.** (Ph. D., \$10.000) Universidad de los Andes, Bogota, Colombia. 2012

**Research award, Graduate School Startup grant** (Masters, \$10.000). Universidad de los Andes, Bogota, Colombia. 2010

## **Professional memberships:**

**Genetics Society of America (2018 -Present)**

**Mycological Society of America (2018 -Present)**

**American Phytopathological Society (2012- Present)**

- **Organizer: Special session in “Disease management in the genomic era”.** APS Annual Meeting 2016.

**Society for the Study of Evolution (2014 -Present)**

**Peer-reviewed Publications:**

- Tabima, J. F.,** Trautman, I. A., Chang, Y., Wang, Y., Mondo, S., Kuo, A., Salamov, A., Grigoriev, I. V., Stajich, J. E., & Spatafora, J. W. (2020). Phylogenomic Analyses of Non-Dikarya Fungi Supports Horizontal Gene Transfer Driving Diversification of Secondary Metabolism in the Amphibian Gastrointestinal Symbiont, *Basidiobolus. G3 (Bethesda, Md.)*, g3.401516.2020. Advance online publication. <https://doi.org/10.1534/g3.120.401516>
- Tabima J. F.,** Sondreli, K.L., Keriö, S., Feau, N., Sakalidis, M.L., Hamelin, R.C., and LeBoldus, J.M. Population genomic analyses reveal human-mediated transport, and differences in virulence of *Sphaerulina musiva* among poplar plantations in North America. (2020). *Molecular Plant Microbe Interactions*.
- Weisberg, A.J., Davis, E.W., **Tabima, J.**, Belcher, M.S., Miller, M., Kuo, C.H., Loper, J.E., Grünwald, N.J., Putnam, M.L. and Chang, J.H., (2020). Unexpected conservation and global transmission of agrobacterial virulence plasmids. *Science*, 368(6495).
- Knaus, B.J., **Tabima, J.F.**, Shakya, S.K., Judelson, H.S. and Grünwald, N.J., (2020). Genome-Wide Increased Copy Number is Associated with Emergence of Dominant Clones of the Irish Potato Famine Pathogen *Phytophthora infestans*. *Mbio*, 11(3).
- Adams, T.M., Armitage, A.D., Sobczyk, M.K., Bates, H.J., Tabima, J.F., Kronmiller, B.A., Tyler, B.M., Grünwald, N.J., Dunwell, J.M., Nellist, C.F. and Harrison, R.J., (2020). Genomic investigation of the strawberry pathogen *Phytophthora fragariae* indicates pathogenicity is associated with transcriptional variation in three key races. *Frontiers in Microbiology*, 11, p.490.
- Tabima J.F.,** Grünwald NJ. (2019). *effectR*: An expandable R package to predict candidate RxLR and CRN effectors in oomycetes using motif searches. *Molecular Plant-Microbe Interactions*. DOI: 10.1094/MPMI-10-18-0279-TA
- Buitrago-Flórez, F., Danies, G., **Tabima, J.**, Restrepo, S. and Hernández, C., 2019. Designing a Socio-Cultural Approach for Teaching and Learning Computational Thinking. *Nordic Journal of Digital Literacy*, 15(02), pp.106-124.
- Keriö, S., Daniels, H.A., Gomez-Gollego, M., **Tabima, J.F.**, Lenz, R.R., Søndreli, K.L., Grünwald, N.J., Williams, N. and McDougal, R., LeBoldus, J.M. (2019). From genomes to forest management—tackling invasive *Phytophthora* species in the era of genomics. *Canadian Journal of Plant Pathology*. DOI: 10.1080/07060661.2019.1626910
- Dale, A.L., Feau, N., Everhart, S.E., Dhillon, B., Wong, B., Sheppard, J., Bilodeau, G.J., Brar, A., **Tabima, J.F.**, Shen, D. and Brasier, C.M., (2019). Mitotic Recombination and Rapid Genome Evolution in the Invasive Forest Pathogen *Phytophthora ramorum*. *mBio*, 10(2), pp. e02452-18.
- Brar, S., **Tabima, J.F.**, McDougal, R.L., Dupont, P-Y., Feau, N., Hamelin, R.C., Panda, P., LeBoldus, J.M., Grünwald, N.J., Hansen, E.M. (2018). Genetic diversity of *Phytophthora pluvialis*, a pathogen of conifers, in New Zealand and the west coast of the United States of America. *Plant Pathology* 67: (5) 1131-1139.

- Davis, Edward W, **Tabima, J.F.**, Weisberg, Alexandra J, Lopes, L. D., Wiseman, M. S, Pupko, T., Belcher, M. S., Sechler, A. J., Tancos, M. A. (2018). *Evolution of the US Biological Select Agent *Rathayibacter toxicus**. *mBio* 9(4):e01280-18.
- Tabima, J.F.**, Coffey, M., Zasada, I., Grünwald, N.J. (2018). Populations of *Phytophthora rubi* show little differentiation and high rates of migration among states in the Western United States. *Molecular Plant Microbe Interactions*. 31(6):614-622.
- Tabima, J.F.**, Kronmiller, B., Press, C., Tyler, B.M., Zasada, I., Grünwald, N.J. (2017). Whole genome sequences of the raspberry and strawberry pathogens *Phytophthora rubi* and *P. fragariae*. *Molecular Plant Microbe Interactions*. 30(10):767-769.
- Tabima, J.F.**, Everhart, S.E., Larsen, M. M. , Weisberg, A.J., Kamvar, Z.N., Tancos, M.A., Smart, C.D., Chang, J.H., Grünwald, N.J. (2016). Microbe-ID: an open source toolbox for microbial genotyping and species identification. *PeerJ* 4:e2279
- Mideros, M.F., Turissini, D.A., Guayazán, N., Ibarra-Avila, H., Danies, G., Cárdenas, M., Myers, K., **Tabima, J.**, Goss, E.M., Bernal, A. and Lagos, L.E. (2018). *Phytophthora betacei*, a new species within *Phytophthora* clade 1c causing late blight on *Solanum betaceum* in Colombia. *Persoonia-Molecular Phylogeny and Evolution of Fungi*, 41:39-55.
- Chang, J. H., & **Tabima, J. F.** (2016). A Covert Operation by a Plant Pathogen. *Cell host & microbe*. 20(4):413-415.
- Davis II, E.W., Weisberg, A.J., **Tabima, J.F.**, Grünwald, N.J. and Chang, J.H. (2016). Gall-ID: tools for genotyping gall-causing phytopathogenic bacteria. *PeerJ*. 4:e2222.
- Restrepo, S., Enciso, J., **Tabima, J.** and Riaño-Pachón, D.M. (2016). Evolutionary history of the group formerly known as protists using a phylogenomics approach. *Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales*/ 40(154):147-160.
- Knaus, B.J., **Tabima, J.F.**, Davis, C.E., Judelson, H.S., and Grünwald, N.J. (2016). Genomic analyses of dominant US clonal lineages of *Phytophthora infestans* reveals a shared common ancestry for clonal lineages US11 and US18 and a lack of recently shared ancestry among all other US lineages. *Phytopathology* 106:1393- 1403.
- Hansen, Z.R., Knaus, B.J., **Tabima, J.F.**, Press, C.M., Judelson, H.S., Grünwald, N.J., and Smart, C.D. (2016). SNP-Based Differentiation of *Phytophthora infestans* Clonal Lineages Using Locked Nucleic Acid Probes and High-Resolution Melt Analysis. *Plant Disease*. 100:1297-1306.
- Hansen, Z. R., Knaus, B.J., **Tabima, J.F.**, Press, C.M., Judelson, H.S., Grünwald, N.J., and Smart, C.D. (2016). Loop-mediated isothermal amplification for detection of the tomato and potato late blight pathogen, *Phytophthora infestans*. *Journal of applied microbiology*. 120:1010-1020.
- Sanjuan, T.I., Franco-Molano, A.E., Kepler, R.M., Spatafora, J.W., **Tabima, J.**, Vasco-Palacios, A.M. and Restrepo, S., 2015. Five new species of entomopathogenic fungi from the Amazon and evolution of neotropical *Ophiocordyceps*. *Fungal Biology*. 119(10):901-916.
- Stewart, J.E., Kroese, D., **Tabima, J.F.**, Larsen, M.M., Fieland, V.J., Press, C.M., Zasada, I.A. and Grünwald, N.J., 2014. Pathogenicity, Fungicide Resistance, and Genetic Variability of *Phytophthora rubi* Isolates from Raspberry (*Rubus idaeus*) in the Western United States. *Plant Disease*. 98(12):1702-1708.
- Restrepo, S., **Tabima, J.F.**, Mideros, M.F., Grünwald, N.J., and Matute, D.R. (2014). Speciation in fungal and oomycete plant pathogens. *Annual Review of Phytopathology*. 52:289–316
- Goss, E.M., **Tabima, J.F.**, Cooke, D.E., Restrepo, S., Fry, W.E., Forbes, G.A., Fieland, V.J., Cardenas, M., and Grünwald, N.J. (2014). The Irish potato famine pathogen *Phytophthora infestans* originated in central Mexico rather than the Andes. *Proceedings of the National Academy of Sciences*. 111, 8791–8796

- Kamvar, Z.N., **Tabima, J.F.**, and Grünwald, N.J. (2014). Poppr: an R package for genetic analysis of populations with clonal, partially clonal, and/or sexual reproduction. *PeerJ*. 2:e281
- Sanjuan, T., **Tabima, J.**, Restrepo, S., Laessøe, T., Spatafora, J.W., and Franco-Molano, A.E. (2014). Entomopathogens of Amazonian stick insects and locusts are members of the *Beauveria* species complex (*Cordyceps* sensu stricto). *Mycologia* 106:260–275
- Cristancho, M.A., Botero-Rozo, D.O., Giraldo, W., **Tabima, J.**, Riaño-Pachón, D.M., Escobar, C., Rozo, Y., Rivera, L.F., Durán, A., Restrepo, S., et al. (2014). Annotation of a hybrid partial genome of the coffee rust (*Hemileia vastatrix*) contributes to the gene repertoire catalog of the Pucciniales. *Frontiers in Plant Science*. 5
- Amado, Y., Patiño-Uzcátegui, A., de García, M.C.C., **Tabima, J.**, Motta, A., Cárdenas, M., Bernal, A., Restrepo, S., and Celis, A. (2013). Seborrheic dermatitis: predisposing factors and ITS2 secondary structure for *Malassezia* phylogenetic analysis. *Medical Mycology* 51, 868–875
- Arrieta-Ortiz, M.L., Rodríguez-R, L.M., Pérez-Quintero, Á.L., Poulin, L., Díaz, A.C., Rojas, N.A., Trujillo, C., Benavides, M.R., Bart, R., Boch, J., **Tabima, J.** et al. (2013). Genomic survey of pathogenicity determinants and VNTR markers in the cassava bacterial pathogen *Xanthomonas axonopodis* pv. *manihotis* strain CIO151. *PloS One* 8, e79704
- Cárdenas, M., **Tabima, J.**, Fry, W., Grünwald, N., Bernal, A., and Restrepo, S. (2012). Defining species boundaries in the genus *Phytophthora*: the case of *Phytophthora andina* A response to “*Phytophthora andina* sp. nov., a newly identified heterothallic pathogen of solanaceous hosts in the Andean highlands”(Oliva et al., 2010). *Plant Pathology* 61, 215–220
- Cárdenas, M., Danies, G., **Tabima, J.**, Bernal, A., and Restrepo, S. (2012). *Phytophthora infestans* Population Structure: A Worldwide Scale. *Acta Biológica Colombiana* 17, 227–240
- Cárdenas, M., Medina, E., **Tabima, J.**, Vargas, A., Lopera, C., Bernal, A., and Restrepo, S. (2011). First report of *Phytophthora infestans* causing late blight on *Solanum viarum* in Colombia. *Plant Disease* 95, 875–875
- Olarte Castillo, X.A., Fermin, G., **Tabima, J.**, Rojas, Y., Tennant, P.F., Fuchs, M., Sierra, R., Bernal, A.J., and Restrepo, S. (2011). Phylogeography and molecular epidemiology of Papaya ringspot virus. *Virus Research* 159, 132–140
- Patino-Uzcátegui, A., Amado, Y., Cepero de Garcia, M., Chaves, D., **Tabima, J.**, Motta, A., Cardenas, M., Bernal, A., Restrepo, S., and Celis, A. (2011). Virulence Gene Expression in *Malassezia* spp from Individuals with Seborrheic Dermatitis. *J Invest Dermatol* 131, 2134–2136

### **Book Chapters:**

- Everhart, S. E., **Tabima, J. F.**, & Grünwald, N. J. (2014). *Phytophthora ramorum*. In *Genomics of Plant-Associated Fungi and Oomycetes: Dicot Pathogens* (pp. 159-174). Springer Berlin Heidelberg
- Cristancho, M., Giraldo, W., Botero, D., **Tabima, J.**, Ortiz, D., Peralta, A., & Riaño, D. 2014. Application of Genome Studies of Coffee Rust. In *Advances in Computational Biology* (pp. 133-139). Springer, Switzerland

### **Publications in preparation**

- Tabima, J. F., Kronmiller, B., Press, C. M., Tyler, B. M. and Grünwald, N. J. Comparative genomic analysis of the sister species *Phytophthora rubi* and *P. fragariae* reveals signatures of host specialization in non-effector genes. In Prep.





## **Leadership**

**Diversity and Equality committee. (2019-2020).** Department of Botany and Plant Pathology. Oregon State University.

**Biology Graduate Student Symposium. (2018).** Faculty advisor.

**Evolutionary ecology committee, American Phytopathological Society.** Organizer of 2016 symposium: “Disease management in the genomics era”. (2016)

**Biology Graduate Student Symposium. (2017).** Vice-president

**Biology Graduate Student Symposium. (2016).** Vice-president

**Biology Graduate Student Symposium. (2015).** Botany and Plant Pathology delegate

**Botany and Plant Pathology Graduate Student Association, Oregon State University.**

**Position:** Vice president (2014 – 2015)

**Association of Latin American Students (ALAS), Oregon State University.**

**Position:** Board member (2012 - 2016), Senior advisor (2014- 2017), Co-Chair (2012 - 2015)

**Undergrad thesis advisor (2012).** “Use of avirulence markers to study genetic diversity in *Phytophthora infestans*” Student: Daniela Castiblanco. Universidad de los Andes, Bogotá, Colombia.

**Undergrad thesis advisor (2012).** “Evolutionary history of the kingdom protista using a Phylogenomical approach” Student: Juan D. Enciso. Universidad de los Andes, Bogotá, Colombia.

**Thesis published:** Restrepo, S., Enciso, J., Tabima, J., & Riaño-Pachón, D. (2016). Evolutionary history of the group formerly known as protists using a phylogenomics approach. *Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales*, 40(154), 147-160. doi:<http://dx.doi.org/10.18257/raccefyn.277>

## **Outreach**

**Courses in Phylogenetics and bioinformatics to the private industry. Bogotá, Colombia. 2010-2012. (Main instructor)**

**Discovery Days. Botany and Plant Pathology department. (2012 – 2017)**

**Botany and Plant Pathology Bolstering Undergraduate Development and Success program. Mentor (2014-2017)**