

Javier Felipe Tabima R., Ph.D.

Assistant Professor

Department of Biology,

Clark University.

15 Maywood Street, Worcester, MA 01610

jtabima@clarku.edu, (541)740-3768

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

Development of tools for genomics in R, BASH and PERL (github.com/Tabima)

Research Experience:

Department of Biology, Clark University. Assistant Professor.

Evolution, genomics, and population genomics of fungal species: Biology, diversity and genomics of the genus *Basidiobolus*

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 *Pacifigorgia*. **2008-2010**

Professional Experience:

Reviewer. G3. **Genetics Society of America.** **2021 – Today**

Reviewer. Plant Health. **American Phytopathological Society.** **2020 – Today**

Reviewer. MPMI. **American Phytopathological Society.** **2020 – Today**

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**

Poster Judge for Postdoctoral Comparative and Functional Genomics. 21 Fungal Genetics conference. **Genetics Society of America.** **2022**

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; Fall, 2021**

Main Instructor. BIOL209: The Genome Project. **Clark University, Worcester, MA.** **Spring, 2020; Spring 2022**

Main Instructor. BIOL265: Population Genetics (Seminar). **Clark University, Worcester, MA.** **Fall, 2021**

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:

Invited Seminar “The intricacies of the genome of a small, gut associated fungus: *Basidiobolus* (Basidiobolaceae, Zoopagomycota)”. Winter Genomics School, Universidad del Rosario, Bogota, Colombia. November 2021

Invited Seminar “The intricacies of the genome of a small, gut associated fungus: *Basidiobolus* (Basidiobolaceae, Zoopagomycota)”. Swedish University of Agricultural Sciences (SLU, Sveriges lantbruksuniversitet). November 2021

Poster Seminar “A novel natural product reservoir: secondary metabolite extracts from a zygomycete, *Basidiobolus meristosporus*, show selective antibacterial activity.” Meeting of the Mycological Society of America, 2021. Presented by Ian Trautman.

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

Faculty Academic Innovation Fund award. Using the study of urban impacts on water quality, frogs, and microbial communities in Worcester waterways to integrate student research, classroom learning, and local STEM outreach. (With Prof. Nathan Ahlgren and Prof. Philip Bergmann). 2022. Clark University. (\$20,000)

Faculty Development Funds award. Investigating epigenetic nucleic acid methylation in *Dictyostelium* slime mold. (With Prof. Robert Drewell and Prof. Denis Laroche). 2022. Clark University. (\$10,000)

Start-up funds. Biology Department, Clark University. 2020 (\$250,000)

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

Awards to Students:

Maddison Hinchey '22. Research award, SURP (Summer Undergraduate Research Experience, \$3,000). Clark University, 2021

Cameron McIlvenna '22. Research award, SURP (Summer Undergraduate Research Experience, \$3,000). Clark University, 2021

Riddhima Pathak '22. The Edwin A. Weiller Summer Fellowship Program in the Sciences (\$3,000). Clark University, 2021

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:

Olarte, R.A., Hall, R., **Tabima, J.**, Malvick, D. and Bushley, K., 2021. Genetic diversity and aggressiveness of *Fusarium virguliforme* isolates across the Midwestern United States. *Phytopathology*, Early Online View

Rivedal, H.M., **Tabima, J.F.**, Stone, A.G. and Johnson, K. (2021). Identity and pathogenicity of fungi associated with root, crown and vascular symptoms related to winter squash yield decline. *Plant Disease*, Early Online View

Benavides, N., Alvarez, A., Arrieta-Ortiz, M. L., Rodriguez-R, L. M., Botero, D., **Tabima, J. F.**, Bernal, A. (2021). The type VI secretion system of *Xanthomonas phaseoli* pv. *manihotis* is involved in virulence and in vitro motility. *BMC Microbiology*, 21(1), 1–12.

Tabima, J. F., Gonen, L., Gomez-Gallego, M., Panda, P., Grunwald, N. J., Hansen, E. M., LeBoldus, J., Williams, N. M. (2021). Molecular phylogenomics and population structure of *Phytophthora pluvialis*. *Phytopathology*, 111(1), 108–115.

Brandt, K. M., Chen, X., **Tabima, J. F.**, See, D. R., Vining, K. J., & Zemetra, R. S. (2021). QTL Analysis of Adult Plant Resistance to Stripe Rust in a Winter Wheat Recombinant Inbred Population. *Plants*, 10(3), 572. <https://doi.org/10.3390/plants10030572>

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.**, Grunwald, 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-Uzategui, 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

Papers in preparation

- Tehan, R. M., Blount, R. R., Goold, R. L., Mattos, D. R., Spatafora, N., **Tabima, J. F.**, Gazis, R., Wang, C., Ishmael, J. E., Spatafora, J. W., McPhail K. L. Tolypocladamide H and the proposed tolypocladamide NRPS in *Tolypocladium* species. In review (2022).
- Trautman, I., Tehan, R. M., **Tabima, J. F.**, Spatafora, J. W., McPhail K. L. A novel natural product reservoir: secondary metabolite extracts from a zygomycete, *Basidiobolus meristosporus*, show selective antibacterial activity. *In prep.*

Leadership

- Faculty Adviser: Future Latinxs in STEM student group (2020- Now).** Clark University
- Faculty Adviser: SPOC (Science-Fiction People of Clark) student group (2020- Now).** Clark University
- Outreach and Communications committee. (2020-Now).** Biology Department. Clark University.
- 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

RecWoo and Clark STEM camps (2020 - Now). Creation of a community partnership between the Biology Department and the Recreation Worcester program of the City of Worcester to create STEM camps in after-hours for the youth at Worcester. Clark University

Faculty Adviser: Future Latinxs in STEM student group (2020- Now). Clark University

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

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

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)

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)