Cristiane Hayumi Taniguti | CV

▶ Email: cht47@cornell.edu | chaytaniguti@gmail.com

▶ Website: cristianetaniguti.github.io

Programming Languages: R (expert), Bash (advanced), WDL (advanced), Nextflow (intermediate),

Python (intermediate)

▶ Languages: Portuguese (native), English (fluent)

Operating Systems:
Unix|Linux, Mac, Windows

Technical Skills: Git/GitHub, LATEX, Markdown, RStudio, VS Code, Docker, Emacs, Office

365, Inkscape, Shiny

I currently serve as the Genomics Coordinator for the Breeding Insight Program at Cornell University, which supports ARS-USDA plant breeders across the United States by providing comprehensive assistance in modern plant breeding, including genomics, phenomics, and data management. In my role, I lead and assist with genomic analyses for a wide range of specialty crops and coordinate communication between the Breeding Insight team and breeders, particularly for coffee and hydrangea. The program supports breeding programs across over 23 species, including hydrangea, coffee, red clover, potato, blackberry, raspberry, sugar beet, hops, alfalfa, blueberry, cranberry, cucumber, grape, hemp, honeybee, lettuce, oat, pecan, salmon, trout, sorghum, strawberry, and sweetpotato.

I also work as a developer and maintainer of several software tools that support genetic analysis. These include OneMap, for building linkage maps in diploid inbred and outcrossing species; Reads2Map,a suite of workflows that guide best practices for SNP calling, dosage calling, and linkage map construction; VIEWpoly, a Shiny app designed to facilitate the visualization and integration of genetic analysis results in polyploid species; and Qploidy, a tool for identifying ploidy levels and aneuploidy using molecular marker data. I also contribute to the development of other impactful tools in the field, including MAPpoly, for linkage map construction in polyploids, and BIGapp, user-friendly R Shiny app to analyze diploids and polyploids genomic data. I regularly assist users with genetic analysis across diverse species and continuously enhance these tools based on user feedback and evolving research needs.

Previously, I worked as a Postdoctoral Research Associate in the TexasA&M University Rose Breeding and Genetics Program within the Horticultural Sciences Department, where I focused on developing computational tools for genetic analysis in polyploid species as part of the Tools for Polyploids Project.

For my Ph.D., I focused on developing novel methods and algorithms to construct genetic maps in highly heterozygous diploid species using markers generated by modern sequencing technologies. This work contributed to the advancement of the *OneMap* software and led to the development of *Reads2Map*. During my master's studies, I specialized in SNP and genotype calling methods and developed an integrated genetic map for an outcrossing population derived from a *Eucalyptus grandis* × *Eucalyptus urophylla* cross.

During my undergraduate studies, I participated in various scientific initiation projects, including the organic chemistry of fungal mycotoxins, cellular regulation of CNC transcription factors, QTL mapping for fat deposition in mice, differential expression studies in *Anastrepha obliqua*, and SNP calling in a sugarcane Genotyping-by-Sequencing (GBS) dataset. These projects gave me a solid foundation in laboratory techniques such as chromatography, cell culture, western blotting, RNA interference (RNAi), and RT-PCR.

My current research interests include biallelic and haplotype-based marker—trait association studies, encompassing QTL mapping, genomic selection (GS), and genome-wide association studies (GWAS). I am particularly interested in polyploid genetics, structural variations such as aneuploidy, and the integration of cytogenetics to better understand genome organization and inheritance patterns in complex plant species.

>>> Education	1	
2017-2021 (4 years)	Ph.D. in Genetics and Plant Breeding	University of São Paulo – ESALQ/USP
	 Title: Building highly saturated genetic maps with Offlows Advisor: Prof. Antonio Augusto Franco Garcia Statistical Genetics Laboratory 	neMap 3.0: new approaches using work-
2015-2017 (2 years)	Master Degree in Genetics and Plant Breeding	University of São Paulo – ESALQ/USP
	 Title: Development of an integrated genetic map for Eucalyptus grandis and Eucalyptus urophylla Advisor: Prof. Antonio Augusto Franco Garcia Statistical Genetics Laboratory 	a full-sib progeny from crossing between
2009 – 2014 (5 years)	Bachelor's Degree in Biotechnology	Federal University of São Carlos – UFSCar
	▶ Title: Gene expression of <i>Anastrepha obiqua</i> male tis	ssue libraries
	Advisor: Prof. Reinaldo Alvarenga Alves de Brito	
	▶ Population Genetics and Evolution Laboratory	

Experience		
2024 - present	Genomics Coordinator	Breeding Insight Cornell University
	Funded by USDA through Cornell UniversitySupervisor: Dongyan Zhao	
2021 - 2024	Postdoctoral Research Associate	Texas A&M University Department of Horticultural Sciences
	 Funded by USDA SCRI grant: "Tools for Genomic-Assi 2020-51181-32156 Supervisor: Oscar Riera-Lizarazu and David Byrne 	isted Breeding in Polyploids" Grant No.
2014	Intern	Sugarcane Technology Center CTC
	Topic: SNP calling in sugarcane GBS datasetSupervisor: Sabrina Chabregas	
2012 (3 months)	Summer student	McGill University MCGILL
	 Title: Cellular regulation of CNC transcription factors Advisor: Prof. Volker Blank 	

2009-2010 Technical training Accert!

Chemistry and Biotechnology

- Topic: Studies in commercial important mycotoxin production by *Fusarium sp.*
- Supervisor: Rodrigo Facchini Magnani

Publications

Refereed articles for which reprints are available:

Article SANDERCOCK, A. M.; PEEL, M. D.; **TANIGUTI, C. H.**; CHINCHILLA-VARGAS, J.; CHEN, S;, SAPKOTA, M;, LIN, M.; ZHAO, D.; BEIL, C.T.; SHEEHAN, M.J. BIGapp: A User-Friendly

Genomic Tool Kit Identified Quantitative Trait Loci for Creeping Rootedness in Alfalfa (Medicago

sativa L.). The Plant Genome, doi: 10.1002/tpg2.70067, 2025.

Article TANIGUTI, C. H.; LAU, J.; HOCHHAUS, T.; ARIAS LOPEZ, D. C.; HOKANSON, S. C.;

ZLESAK, D. C.; BYRNE, D. H.; KLEIN, P. E.; RIERA-LIZARAZU, O. Exploring Chromosomal Variations in Garden Roses: Insights from High-density SNP Array Data and a New Tool, Qploidy.

The Plant Genome. doi: https://doi.org/10.1002/tpg2.70044, 2025.

Article TANIGUTI, C. H., TANIGUTI, L. M.; AMADEU, R. R.; LAU, J.; DE SIQUEIRA GESTEIRA,

G.; OLIVEIRA, T. D. P.; FERREIRA, G. C.; PEREIRA, G. D. S.; BYRNE, D.; MOL-LINARI, M.; RIERA-LIZARAZU, O.; GARCIA, A. A. F. Developing best practices for genotyping-by-sequencing analysis in the construction of linkage maps. **GigaScience**. doi:

https://doi.org/10.1093/gigascience/giad092, 2023.

Article LAU, J.; GILL, H.; TANIGUTI, C. H.; YOUNG, E.; KLEIN, P. E.; BYRNE D. H.; RIERA-

LIZARAZU, O. QTL discovery for resistance to black spot and cercospora leaf spot, and defoliation in two interconnected F1 bi-parental tetraploid garden rose populations. **Frontiers in Plant**

Science. doi:10.3389/fpls.2023.1209445, 2023.

Article HOCHHAUS, T.; LAU, J.; **TANIGUTI, C. H.**; YOUNG, E. L.; BYRNE, D. H.; RIERA-LIZARAZU, O. Meta-Analysis of Rose Rosette Disease-Resistant Quantitative Trait Loci and

a Search for Candidate Genes. **Pathogens**. doi: 10.3390/pathogens12040575. 2023.

Article TANIGUTI, C. H.; GESTEIRA, G. S.; LAU, J.; PEREIRA, G. S.; ZENG, Z. B.; BYRNE,

D. H.; RIERA-LIZARAZU, O.; MOLLINARI, M. VIEWpoly: a visualization tool to integrate

and explore results of polyploid genetic analysis. Journal of Open Source Software. doi:

10.21105/joss.04242, 2022.

Article RAVERDY, R.; LOURGANT, K.; MIGNOT, E.; ARNOULT, S.; BODINEAU, G.; GRIVEAU,

Y.; **TANIGUTI, C. H.**; BRANCOURT-HULMEL, M. Linkage Mapping of Biomass Production and Composition Traits in a *Miscanthus sinensis* Population. **BioEnergy Research**, doi:

10.1007/s12155-022-10402-8, 2022.

Article ALMEIDA, C. P.; PAULINO, J. F. de C.; BONFANTE, G. F. J.; PERSEGUINI, J. M. K. C.; SANTOS, I. L.; GONÇALVES, J. G. R.; PATRÍCIO, F. R. A.; **TANIGUTI, C. H.**; GESTEIRA,

G. de S. G.; GARCIA, A. A. F.; SONG, Q.; CARBONELL, S. A. M.; CHIORATO, A. F.; BENCHIMOL-REIS, L. L. Angular Leaf Spot Resistance *Loci* Associated With Different Plant Growth Stages in Common Bean. **Frontiers in Plant Science**, doi: 10.3389/fpls.2021.647043,

2021.

Article CONSON, A. R. O.; TANIGUTI, C. H.; AMADEU, R. R.; ANDREOTTI, I. A. A.; DE SOUZA, L.

M.; DO SANTOS, L. H. B.; DE SOUZA, A. P. High-resolution genetic map and QTL analysis of growth-related traits of *Hevea brasiliensis* cultivated under suboptimal temperature and humidity

conditions. Frontiers in Plant Science, doi: 10.3389/fpls.2018.01255, 2018.

Article NAKAMURA, A. M.; CHAHAD-EHLERS, S.; LIMA, A. L. A.; **TANIGUTI, C. H.**; SOBRINHO

Jr, I.; TORRES, F. R.; DE BRITO, R. A. Reference genes for accessing differential expression among developmental stages and analysis of differential expression of OBP genes in *Anastrepha*

obliqua. Scientific Reports, doi: 10.1038/srep17480, 2016.

Under peer-review:

CHEN, S.; LIN, M.; TANIGUTI, C. H.; TANG, X.; TORRE, F.; SIDELI, G.; IORIZZO, M.; Article EDGER, P.; NEYHART, J.; ZALAPA, J.; HELLER-USZYNSKA, K.; BASSIL, N.; ZHAO, D.;

BEIL, C.; SHEEHAN, M.J. A Public Mid-Density Genotyping Platform For Cultivated Cranberry

(Vaccinium macrocarpon Aiton). Submitted June 2025.

ZHAO, D; CHINCHILLA-VARGAS, J.; SANDERCOCK, A. M.; TANIGUTI, C. T.; LONG, Article

R.; PALTI, Y.; GAO, G.; PIETRAK, M.; MAY, S. A.; HELLER-USZYNSKA, K.; BEIL, C. T.; SHEEHAN, M. J. A Public Mid-density Genotyping Platform for North American Atlantic Salmon

(Salmo salar L.) . Submitted April 2025.

Available as pre-print:

Article

GAZAFFI, R.; AMADEU, R. R.; MOLLINARI, M.; ROSA, J. R. B. F.; TANIGUTI, C. H.; MARGARIDO, G. R. A.; GARCIA, A. A. F. . fullsibQTL: an R package for QTL mapping in biparental populations of outcrossing species. BioRxiv, doi: 10.1101/2020.12.04.412262, 2020.

Software

As principal developer:

2025	TANIGUTI, C. H.; LAU, J. Qploidy: ploidy and aneuploidy estimation using genotyping
	platform data. Available on CRAN and GitHub: https://github.com/Cristianetaniguti/
	Oploidy - 427 CRAN downloads by July 2025

TANIGUTI, C. H.; TANIGUTI, L. M. Reads2Map: WDL workflows to build genetic maps 2023 from sequencing reads. Available on GitHub: https://github.com/Cristianetaniguti/ Reads2Map

2023 **TANIGUTI, C. H.. Reads2MapApp**: Shiny app to evaluate Reads2Map workflows results. Available on GitHub: https://github.com/Cristianetaniguti/Reads2MapApp

TANIGUTI, C. H.; LAU, J.; ANGELIN-BONNET, O.; GESTEIRA, G. S.; PEREIRA, G. S.; BYRNE, D.; ZENG, Z. B.; THOMSON, S.; MOLLINARI, M.; RIERA-LIZARAZU, O. VIEWpoly: R package to visualize genetic maps and QTL analysis. Available on CRAN and GitHub: https://github.com/mmollina/viewpoly - 11k CRAN downloads by July 2025

> MARGARIDO, G. R. A; MOLLINARI, M.; TANIGUTI, C. H.; FERREIRA, G.; AMADEU, R. R.; LAU, J.; BROMAN, K.; PREEDY, K.; SCHIFFTHALER, B.; GARCIA, A. A. F. OneMap: Construction of Genetic Maps in Experimental Crosses. Responsible for maintaining and update the package since 2017. Package available on CRAN and GitHub: https://github.com/ Cristianetaniguti/onemap - 65k CRAN downloads by July 2025

As collaborator:

2022

2017

2025 SANDERCOCK, A. M.; TANIGUTI, C. H.; CHINCHILLA-VARGAS, J.; CHEN, S;, SAP-KOTA, M; LIN, M.; ZHAO, D. BIGapp: Breeding Insight Genomics Shiny Application. Available on GitHub: https://github.com/Breeding-Insight/BIGapp

2025 SANDERCOCK, A. M.; TANIGUTI, C. H.; CHINCHILLA-VARGAS, J.; CHEN, S;, SAP-KOTA, M; LIN, M.; ZHAO, D.BIGr: Breeding Insight Genomics Functions for Polyploid and Diploid Species. Available on CRAN and GitHub: https://github.com/Breeding-Insight/

BIGr - 540 CRAN downloads by July 2025

CHINCHILLA-VARGAS, J.; TANIGUTI, C. H.; SANDERCOCK, A. M.; ZHAO, D.BIGf90: R 2025 face front for running K-fold crossvalidation, estimating ebvs and variance component estimation with Blupf90 modules. Available on GitHub: https://github.com/josuechinchilla/ BIGf90

2024 MOLLINARI, M.; GESTEIRA, G.; TANIGUTI, C. H.; LAU, J.; PEREIRA, G. S.; GARCIA, A. A. F.; ZENG, Z. B.; PREEDY, K.; GENTLEMEN, R.; IHAKA, R. MAPpoly: Genetic Linkage Maps in Autopolyploids v2.0. Available on GitHub: https://github.com/mmollina/ mappoly2

2023	MOLLINARI, M.; GESTEIRA, G.; TANIGUTI, C. H. ; LAU, J.; PEREIRA, G. S.; GARCIA, A. A. F.; ZENG, Z. B.; PREEDY, K.; GENTLEMEN, R.; IHAKA, R. MAPpoly : Genetic Linkage Maps in Autopolyploids. Available on CRAN and GitHub: https://github.com/mmollina/MAPpoly - 40k CRAN downloads by July 2025
2020	GAZAFFI, R.; AMADEU, R; TANIGUTI, C. H. ; MOLLINARI, M.; MARGARIDO, G.; ROSA, J.; BROMAN, K.; GARCIA, A. A. F. fullsibQTL : Software for QTL Mapping using a Full-Sib Progeny. Available on GitHub: https://github.com/augusto-garcia/fullsibQTL

Awards & Distinctions

2024 USDA Secretary Honor Award

In a ceremony held on January 10, 2025, in Washington D.C., the U.S. Department of Agriculture (USDA) awarded Breeding Insight (BI) and BI OnRamp the prestigious Agricultural Secretary Honor Award in the category of "Providing all Americans safe, nutritious food".

Selected awards recognizing academic contributions and participation during graduate and postdoctoral training.

2023	Postdoctoral Scholar Travel Award - Texas A&M University
2021	Market Ready Prize - Cornell Institute Digital Agriculture Hackathon 2021
2018	WikiProject Computational Biology/ISCB Student Award 2018 - International Society for Computational Biology (ISCB) and WikiProject Computational Biology
2017	Best Poster Award - Brazilian Association for Bioinformatics and Computational Biology

Day Oral presentation in events

2024	TANIGUTI, C. H.; ZHAO, D.; BEIL, C.T.; SHEEHAN, M.J. Enhancing Genetic Insights with
	Polyploid Tools and User-Friendly Interfaces. Plant Science Symposium - University of Florida.
	Gainesville (FL), United States.

- TANIGUTI, C. H.; LAU, J.; MOLLINARI, M.; BYRNE, D.; RIERA-LIZARAZU, O. Computational Tools for Genetic Analysis of Polyploid Crops. Texas A&M Plant Pathology and Microbiology Department Seminar. College Station (TX), United States.
- TANIGUTI, C. H.; TANIGUTI, L. M.; LAU, J.; GARCIA, A. A.; MOLLINARI, M.; BYRNE, D.; RIERA-LIZARAZU, O. Benchmarking Genotyping-by-Sequencing Pipelines with Linkage Maps.

 XXXI Plant & Animal Genome Conference, Linkage and Deletion Mapping Workshop. San Diego (CA), United States.
- TANIGUTI, C. H.; LAU, J.; BYRNE, D.; RIERA-LIZARAZU, O. Investigating Ploidy and Aneuploidy Patterns Among Rosa spp. and the Effect on Linkage Analysis. XXXI Plant & Animal Genome Conference, Landscape Trees and Shrubs Workshop. San Diego (CA), United States.
- TANIGUTI, C. H.; TANIGUTI, L. M.; LAU, J.; GARCIA, A. A.; MOLLINARI, M.; BYRNE, D.; RIERA-LIZARAZU, O. Reads2Map updates: Benchmarking Genotyping-by-Sequencing Pipelines for Polyploids Using Linkage Maps. Tools for Polyploids Workshop. San Diego (CA), United States.
- TANIGUTI, C. H.; LAU, J.; BYRNE, D.; RIERA-LIZARAZU, O. Ploidy and Aneuploidy Determination in a Collection of Rosa spp. Accessions and the Impact of Aneuploidy on Linkage Analysis. Tools for Polyploids Workshop. San Diego (CA), United States.
- TANIGUTI, C. H.; GESTEIRA, G. S.; LAU, J.; PEREIRA, G.; BYRNE, D.; ZENG, ZB.; MOL-LINARI, M.; RIERA-LIZARAZU, O. VIEWpoly updates: An Interactive Visualization Tool for Linkage Analysis Results of Diploid and Polyploid Species. Tools for Polyploids Workshop. San Diego (CA), United States.

- TANIGUTI, C. H., TANIGUTI, L. M.; AMADEU, R. R.; LAU, J.; DE SIQUEIRA GESTEIRA, G.; OLIVEIRA, T. D. P.; FERREIRA, G. C.; Pereira, G. D. S.; BYRNE, D.; MOLLINARI, M.; RIERA-LIZARAZU, O.; GARCIA, A. A. F. Selecting best bioinformatic pipeline for evaluating diploid and auto-tetraploid garden roses genotyping-by-sequence data. XXX Plant & Animal Genome Conference. San Diego (CA), United States.
- TANIGUTI, C. H., TANIGUTI, L. M.; AMADEU, R. R.; LAU, J.; DE SIQUEIRA GESTEIRA, G.; OLIVEIRA, T. D. P.; FERREIRA, G. C.; Pereira, G. D. S.; BYRNE, D.; MOLLINARI, M.; RIERA-LIZARAZU, O.; GARCIA, A. A. F. Reads2map: Practical and Reproducible Workflows to Build Polyploid Linkage Maps from Sequencing Data. Tools for Polyploids Workshop. San Diego (CA), United States.
- TANIGUTI, C. H., DE SIQUEIRA G. G.; MOLLINARI, M. Genetic data analysis in polyploids: from allelic dosage to QTL mapping. **GVENCK workshop**. Remote, hosted in Piracicaba (SP), Brazil.
- TANIGUTI, C. H., TANIGUTI, L. M.; AMADEU, R. R.; LAU, J.; DE SIQUEIRA GESTEIRA, G.; OLIVEIRA, T. D. P.; FERREIRA, G. C.; Pereira, G. D. S.; BYRNE, D.; MOLLINARI, M.; RIERA-LIZARAZU, O.; GARCIA, A. A. F. Reads2map: Practical and Reproducible Workflows to Build Linkage Maps from Sequencing Data. Tools for Polyploids Workshop. Remote, hosted in College Station (TX), United States.
- TANIGUTI, C. H.; GESTEIRA, G. S.; LAU, J.; PEREIRA, G. S.; ZENG, Z. B.; BYRNE, D. H.; RIERA-LIZARAZU, O.; MOLLINARI, M. VIEWpoly: An Interactive Tool to Visualize, Explore and Integrate Genetic Maps and QTL Analysis with Genomic Information. XXIX Plant & Animal Genome Conference. Remote, hosted in San Diego (CA), United States.
- TANIGUTI, C. H.; CORRER, F. H. Plant Biotechnology: from domestication to modern plant breeding. **BiotecLives**. Remote, hosted in Santa Cruz do Sul (RS), Brazil.
- TANIGUTI, C. H.; DIAS, K. O. Talk "Statistical Genetics in Breeding 4.0". Workshop in Genetics and Plant Breeding (ESALQ/USP). Piracicaba (SP), Brazil.

Teaching and Training Courses

- TANIGUTI, C. H.; CHINCHILLA-VARGAS, J.. Introduction to R Programming. 16 hours course. Presented to Instituto Nacional de Innovación y Transferencia en Tecnología Agropecuaria. Remote, hosted in Ithaca (NY), United States.
- MOLLINARI, M.; **TANIGUTI, C. H.**. Building Linkage Map for Inbred Diploid Populations with OneMap. 1 hour course. Part of the course "Theoretical and Practical Aspects of Linkage Analysis in Diploids and Polyploids" presented to **USDA/Breeding Insight group**. Remote, hosted in Ithaca (NY), United States.
- 2023 CORRER, F. H; **TANIGUTI, C. H.**. Linkage and Recombination. 2 hour course. Part of the summer course in Genetics of **Montana State University**. Remote, hosted in Bozeman (MT), United States.
- TANIGUTI, C. H.; ANGELIN-BONNET, O.; GESTEIRA, G. S.; LAU, J.; PEREIRA, G. S.; ZENG, Z. B.; THOMSON, S.; BYRNE, D. H.; MOLLINARI, M.; RIERA-LIZARAZU, O. VIEWpoly + HIDECAN: Usage demonstration of VIEWpoly updates and the integration with HIDECAN package. 1 hour course. Tools for Polyploids Training Workshop. Nelson, New Zealand.
- TANIGUTI, C. H., TANIGUTI, L. M.; AMADEU, R. R.; LAU, J.; DE SIQUEIRA GESTEIRA, G.; OLIVEIRA, T. D. P.; FERREIRA, G. C.; Pereira, G. D. S.; BYRNE, D.; MOLLINARI, M.; RIERA-LIZARAZU, O.; GARCIA, A. A. F. Reads2Map: Usage demonstration in a High-Performance Computing environment. 1 hour course. Tools for Polyploids Training Workshop. Nelson, New Zealand.
- CORRER, F. H; **TANIGUTI, C. H.**. Linkage and Recombination. 2 hour course. Part of the summer course in Genetics of **Montana State University**. Remote, hosted in Bozeman (MT), United States.

- TANIGUTI, C. H.; LAU, J.; GESTEIRA, G. S.; CARAZA-HARTER, M. Computational Support session for SNP and Dosage calling. 2 hours sessions. Tools for Polyploids Project. Remote, hosted in College Station (TX), United States.
- TANIGUTI, C. H.; ARAUJO, W.; GODOY, C.; DIAS, K. O. Update on Statistical Tools Applied to Plant Breeding. 8 hours course. **Epagri Research Center for Family Agriculture**. Remote, hosted in Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; CORRER, F. H; HOSAKA, G. Short course "R introduction and applications in genetics". 4 hours course. 11 Integrated Undergraduate and Graduate Week, São Carlos Institute of Physics. Remote, hosted in São Carlos (SP), Brazil.
- TANIGUTI, C. H.; CORRER, F. H; HOSAKA, G. Short course "R introduction". 4 hours course. Part of the course for graduate students "Biometrics of Genetic Markers", **Department of genetics, ESALQ/USP**. Remote, hosted in Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; CORRER, F. H. Short course "R introduction and applications in genetics". 4 hours course. X Four Biotec, Federal University of São Carlos. Remote, hosted in São Carlos (SP), Brazil.
- TANIGUTI, C. H.. SNP and genotype calling in GBS data A practical guide. 2 hours course.

 Conservation Genetics and Genomics Group, ESALQ/USP. Remote, hosted in Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; GARCIA, A. L.; PESSOA, V. H. M. Short course "R programming training". 12 hours course. Trainning organized by extension group **GENt, Department of Genetics, ESALQ/USP**. Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; GARCIA, A. A. F. Teaching assistant in the Genetic Marker Biometry course for graduate students. 4 hours course weekly during one semester. **ESALQ/USP**. Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; CORRER, F. H; BATISTA, L.; GARCIA, A. L. "R Introduction Short Course". 6 hours course. XII Genetics and Plant Breeding Workshop, Department of Genetics, ESALQ/USP. Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; CORRER, F. H; GESTEIRA, G. S.; GARCIA, A. L.; AVELAR, A.; HOSAKA, G. "Introduction to R data analysis". 12 hours course. Trainning organized by the extension group GVENCK, Department of Genetics, ESALQ/USP. Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; GARCIA, A. A. F. Lecture in the discipline Molecular Biology Applied to Plant Breeding with the talk "Building genetic maps, QTL mapping and applications in Plant Breeding" for graduate students. 4 hours course. Agronomic Institute of Campinas (IAC). Campinas (SP), Brazil.
- TANIGUTI, C. H.; CORRER, F. H. "R Introduction Short Course". 4 hours course. Plant Ecological Genetics Lab, Department of Genetics, ESALQ/USP. Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; KRAUSE, M. "R Introduction and Applications to Genetics and Plant Breeding". 6 hours course. XI Genetics and Plant Breeding Winter Workshop, Department of Genetics, ESALQ/USP. Piracicaba (SP), Brazil.
- **TANIGUTI, C. H.**; GARCIA, A. A. F. Teaching assistant of the Genetic course for undergrad students. 4 hours course weekly during one semester. **ESALQ/USP**. Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; AMADEU, R. R.; CORRER, F. H.; LARA, L.; QUEZADA, M. "Introduction to the R platform". 4 hours course. X Genetics and Plant Breeding Workshop, Department of Genetics, ESALQ/USP. Piracicaba (SP), Brazil.
- TANIGUTI, C. H.; LARA, L.; QUEZADA, M. "Introduction to R and Genetic Mapping". 4 hours course. IX Genetics and Plant Breeding Workshop, Department of Genetics, ESALQ/USP. Piracicaba (SP), Brazil.

Abstract

TANIGUTI, C. H.; LAU, J.; BYRNE, D. & RIERA-LIZARAZU. Qploidy: ploidy and aneuploidy determination for polyploids species. **The Allied Genetics Conference**. Washington DC, United States. Year: 2024.

Abstract

TANIGUTI, C. H.; LAU, J.; BYRNE, D. & RIERA-LIZARAZU. A survey of ploidy and aneuploidy in a collection of Rosa spp. accessions and the impact of aneuploidy on linkage analysis. **XXXI Plant and Animal Genome Conference**. San Diego (CA), United States. Year: 2024.

Abstract

TANIGUTI, C. H.; GESTEIRA, G. S.; LAU, J.; PEREIRA, G. S.; BYRNE, D.; ZENG, Z. B.; RIERA-LIZARAZU O. & MOLLINARI, M. . VIEWpoly: An interactive tool for mining results from genetic mapping analysis in autopolyploid species. **Advances in Genome Biology and Technology Conference**. San Antonio (TX), United States. Year: 2023.

Abstract

TANIGUTI, C. H.; TANIGUTI, L. M.; GESTEIRA, G. S.; OLIVEIRA, T. P.; LAU, J.; FERREIRA, G. C.; AMADEU, R. R.; BYRNE, D.; RIERA-LIZARAZU O.; PEREIRA, G. S.; MOLLINARI, M. & GARCIA, A. A. F.. Comparing genotype calling software performance in Genotyping-by-Sequencing data of outcrossing population based on genetic maps quality. **30th Conference on Intelligent Systems for Molecular Biology**. Madison (WI), United States. Year: 2022.

Abstract

TANIGUTI, C. H.; TANIGUTI, L. M.; GESTEIRA, G. S.; OLIVEIRA, T. P.; LAU, J.; FERREIRA, G. C.; AMADEU, R. R.; BYRNE, D.; RIERA-LIZARAZU O.; PEREIRA, G. S.; MOLLINARI, M. & GARCIA, A. A. F. . Reads2Map: Practical and Reproducible Workflows to Build Linkage Maps from Sequencing Data. **XXIX Plant & Animal Genome Conference**. Remote, hosted in San Diego (CA), United States. Year: 2022.

Abstract

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Peer Review & Evaluation Roles		
2025	Theoretical and Applied Genetics	Manuscript Reviewer (1 time)
	▶ ISSN: 0040-5752▶ IF: 4.2 (2024), Q1 in Plant Science	
2023	Bioinformatics Advances	Manuscript Reviewer (1 time)
	▶ ISSN: 2635-0041▶ IF: 2.8 (2024), Q1 in Bioinformatics	
2023	Annals of Applied Biology	Manuscript Reviewer (1 time)
	▶ ISSN: 1744-7348	

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2025	Journal of Pure and Applied Microbiology	Manuscript Reviewer (1 time)
	ISSN: 0973-7510IF: 0.882 (2024), Q3 in Microbiology	
2025	F1000Research	Manuscript Reviewer (1 time)
	ISSN: —SJR: 0.537 (2024), Q1 in multiple categories	
2021	PhD Qualification Exam – State University of Campinas	Committee Member
	Molecular-genetics studies in <i>Urochloa humidicola</i>: buildirCandidate: Aline da Costa Lima Moraes	ng a high-density linkage map

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