Otho Mantegazza - CV

Personal information

Birth date: 21st October, 1987

Social: Github - Linkedin - Twitter
website: otho.netlify.com

Work Experience

January 2018 - December 2018

Postdoc at IRD (Institut de Recherche pour le Développement)

During this period I have been working on the **architecture of rice panicles**, a trait of agronomic interest.

In this period I've helped a research team to **analyze and visualize phenotypic and transcriptomic data**. With those data we observed which gene controls panicle branching of Asian and African Rices.

Reference Contact: Dr. Stephane Jouannic stephane.jouannic@ird.fr

April 2015 - October 2017

Postdoc at CEPLAS (Cluster of Excellence in Plant Science)

During this period I have investigated the genetic basis of alternative photosynthetic systems which could improve crop yield in warm and dry climate.

My main tasks have been to **analyze transcriptomic data** and to **supervise a PhD student** that used genome editing to mimic the first stages of evolution of C4 photosynthesis in a C3 model plant.

Here, I have also realized how complicated genetic data are, and that it is important that we learn to communicate those data with **clear and simple english** and with **data visualizations**.

Reference Contact: Prof. Andreas Weber andreas.weber@uni-duesseldorf.de

November 2011 - November 2014

PhD Student at the University of Milan

Under the guidance of **Professor Martin Kater** and **Dr. Veronica Gregis** I have explored which gene control flower development in plants.

During my PhD I have also supervised several master student which contributed to my research projects.

Reference Contact: Prof. Martin Kater martin.kater@unimi.it

February 2010 - October 2011

Scientific Museum Guide

At the *Museo Nazionale della Scienza e della Tecnologia Leonardo da Vinci* I have been conducting tours tin thesections aonair, land and water transport.

Education

PhD in Biomolecular Sciences
Awarded in **November 2014**
Università degli Studi di Milano, Department of Biosciences, Milan, Italy.

Master of Science in Molecular Biotechnology,
Awarded in **October 2011**,
Università degli Studi di Milano, Milano, Italy.

Bachelor of Science in Industrial and Environmental Biotechnology
Awarded in **October 2009**,
Università degli Studi di Milano, Milan, Italy.

Diploma Liceo Scientifico (High School)
September 2001 - July 2006,
Scuola Rudolf Steiner, Milano https://www.scuolasteinermilano.it/

Skills

Data analysis and dataviz in R

Data wrangling, visualization and communication. Intermediate statistical modeling and R programming.

Bioinformatic analysis

Mapping and quantification of transcriptomic data. Elements of de novo assembly and annotation of genomes. Elements of Shell scripting, Statistical analysis of transcriptomic data, elements of proteomics and metabolomics data analysis. Modeling of phenotypic data.

Molecular Biology

Molecular cloning, genome editing, real-time qPCR, Laser microdissection.

Communication

Data visualization, elements of web development and markdown.

Selected Publications

Hahn, Florian, **Otho Mantegazza**, André Greiner, Peter Hegemann, Marion Eisenhut, and Andreas PM Weber. An efficient visual screen for CRISPR/Cas9 activity in Arabidopsis thaliana. *Frontiers in plant science 8 (2017)*.

Lundquist, Peter K., **Otho Mantegazza**, Anja Stefanski, Kai Stühler, and Andreas PM Weber. Surveying the oligomeric state of Arabidopsis thaliana chloroplasts. *Molecular plant 10, no. 1 (2017): 197-211*.

Mantegazza, Otho, Veronica Gregis, Matteo Chiara, Caterina Selva, Giulia Leo, David S. Horner, and Martin M. Kater. Gene coexpression patterns during early development of the native Arabidopsis reproductive meristem: novel candidate developmental regulators and patterns of functional redundancy. *The Plant Journal 79, no. 5 (2014): 861-877*.

Languages

Italian (native), English (fluent), German (beginner), French (beginner).