

## Curriculum Vitae

### Personal Information

Name: Felipe Yamashita de Oliveira (Yamashita, FO)

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### Education

Year	Degree	Institution
2017 - 2019	MSc in Botany (Plant Physiology)	Biosciences Institute of Botucatu, São Paulo State University (Unesp), Brazil
2016	Bachelor in Biology with undergrad research	Biosciences Institute of Botucatu, São Paulo State University (Unesp), Brazil
2014 - 2015	Graduation in Environmental Science	University of Wisconsin – Green Bay, United States of America
2010 - 2015	Graduation in Biology	Biosciences Institute of Botucatu, São Paulo State University (Unesp), Brazil

### Research interests

In my scientific initiation to MSc I have studied how plant physiology is altered by water stress and recurrent drought. In my MSc, I am investigating plants communication induced by allelopathic substances. One of the methods that I am using for such analysis is gene expression of specific genes for root growth through qPCR. In addition, I am studying plant communication by the roots. Also, I am investigating the memory effect (imprinting) of different stress events through epigenetics, such as specific histone methylation. All this parameters, is associated with constantly physiological monitoring and a later anatomical analyses through light and electron microscopy.

My research interests involve plant communication in different levels (chemical compounds, electric signals and mechanical touches), physiological and molecular alterations (gene expression and epigenetic mechanism) under environmental changes.

**Most important abstract**

YAMASHITA, F.O; MANTOAN, LPB; RODRIGUES, AL; PORTELLA, RO; LEONEL, M; ALMEIDA, LFR. Ecophysiology efficiency in *Curcuma zedoaria* (Christm.) Roscoe under recurrent drought stress. In XVI Brazilian Congress of Plant Physiology, 2017, São Pedro – SP, Brazil.

**Extra abstract**

YAMASHITA, FO; REIS, LO; BILLIS, A; FERREIRA, U; TRINDADE FILHO, JCS; QUITETE, VHAC; FAVARO, WJ. Steroid Hormone Receptors (SHRs) and Prostatic Cancer Stem Cell (PCSC) Biomarkers: Implications for the Pathogenesis of Nodular Hyperplasia (NH), High-Grade Prostatic Intraepithelial Neoplasia (HGPIN). In: XXXIII Urology Brazilian Congress, 2011, Florianópolis – SC, Brazil.

**Technical skills**

- Correct soil pH, adjust nutrients concentration of soil and solution application, considering optimal values for the species under study.
- Analyze water relations: handle and interpret data from Leaf Porometer and Water Potential Analyzer equipment; Relative Water Content methodology in leaves.
- Analyze gas exchange: handle and interpret data from Infra-Red Gas Analyzer – IRGA equipment.
- Analyze chlorophyll *a* fluorescence: handle and interpret data from Fluorometer equipment; calculate photochemical variables.
- Molecular genetics: all procedures involved in epigenetic (histone methylation quantification), RNA extraction, RT-qPCR and protein extraction.
- Analyze anatomical sections, handle and interpret data from microtome and ultramicrotome.
- Analyze roots content: extract, analyses and interpret data from starch, protein, fatty acids, total and reducing sugar and mineral content.

**Languages**

English: advanced

German: basic

French: basic

Portuguese: native language

## **References**

**Luiz Fernando Rolim de Almeida**, MD, PhD (Master's degree supervisor).

São Paulo State University (UNESP, Brazil).

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