Postdoctoral Position

Regulatory proteins acting at the crossroads of light and jasmonate signaling: characterization of their molecular function and their impact on crop quality.

Department of Botany, Institute of Biosciences, University of São Paulo, Brazil

Abstract:

Light and the stress phytohormone jasmonate (JA) signaling, represent a crucial point of crosstalk between two conflicting developmental programs in plants, growth and defense response. Hence, increased in depth fundamental knowledge of common players in light and JA signaling is highly desired, and ultimately may allow the developing of strategies for uncoupling both responses. In this project, we will specifically investigate transcription factor complexes that involve a limitedly investigated family of transcription factors, the BBX proteins, using tomato as a model. Unravelling the composition and role of the BBX transcription factor complexes will allow revealing new mechanisms in JA-light crosstalk, and thereby advance our views on how traits, such as crop yield and nutritional quality are determined.

Candidate profile:

PhD in plant biology or related field within the last two years.
Knowledge and experience in plant functional genomics including molecular biology, plant transformation, bioinformatics, statistics, and scientific writing.
Candidates should be creative and capable of developing a competitive research project while working in autonomy under the supervision of a team leader.

Documents for application:

a) CV;
b) intention letter;
c) recommendation letter.
Send to Magdalena Rossi (mmrossi@usp.br), between 01/04/2022 to 29/04/2022.

General information:

Starting time will be June 1st, 2022 (date can be negotiated). Full time position. The fellowship is for 24 months with R$ 8.479,20 (approximately U$D 1,700.00) monthly.