

Latin American Posgraduate Program in Biophysics (POSLATAM)



POSLATAM 2016
Horco Molle - Tucumán
ARGENTINA

IX POSLATAM Course

Quantitative imaging in Biophysics



San Miguel de Tucumán, November 21 to 25, 2016

This course will introduce key concepts in fluorescence microscopy. The course's goal is to provide a solid background in both the theoretical concepts and practical skills in quantitative fluorescence microscopy with applications in biological research. Topics will be introduced in lectures, and computer labs will give the student hands-on practice on different image analysis strategies.

Course modalities

Theoretical Course (do not require POSLATAM Program registration)

Theoretical and Practical Course (only [POSLATAM students](#))

Topics

Photochemistry and Fluorescence
Introduction to Optical Microscopy
Förster Resonance Energy Transfer (FRET) microscopy
Fluorescence Recovery after Photobleaching (FRAP)
Fluorescence Correlation Spectroscopy (FCS)
Image Analysis and Processing

Course coordinator

Lia Pietrasanta

Instructors

Hernan Grecco
Valeria Levi
Luis Bagatolli
Lorena Sigaut
Catalina von Bilderling
Yanina Alvarez
Lia Pietrasanta

Invited Lectures

Enrico Gratton, University of California at Irvine, USA.
Dave Jameson, University of Hawaii, USA.
Carlos Bustamante, University of California at Berkeley, USA
Fernando Stefani, Universidad de Buenos Aires, Argentina
Jerson Silva, Universidade Federal do Rio de Janeiro, Brasil
Thomas Jovin, Max Plank Institute for Biophysical Chemistry, Germany

Registration: open until October 15, 2016 at the Biophysical Society of Argentina [web page](#).

For more information about the course, contact at cursoposlatam2016@gmail.com

For information about the POSLATAM program, contact at poslatam@gmail.com