

# 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](mailto:cursoposlatam2016@gmail.com)

For information about the POSLATAM program, contact at [poslatam@gmail.com](mailto:poslatam@gmail.com)