

# STRUCTURAL BIOLOGY IN REDOX PROCESSES

6 – 10 November, 2017

Facultad de Medicina, Universidad de la República, Montevideo, Uruguay

## Course description

The course will provide fundamentals for structural biology applications for redox events in proteins such as post-translational oxidative modifications, aggregation and redox catalysis. A problem-based focus will show how structural biology approaches can be applied to understand and resolve functional aspects in model proteins. Methods to be discussed include: Resonance Raman, X-ray crystallography, Molecular Dynamics, EPR, Fluorescence, Circular Dichroism, NMR.

## Session Topics

The Multiple lives of cytochrome c  
Superoxide dismutation: how to be a hyper-efficient enzyme  
Performing redox reactions with fast protein thiols  
Redox processes in protein aggregation

## Invited Professors

Alejandro Buschiazzi, Institut Pasteur de Montevideo  
Darío Estrín, Universidad de Buenos Aires  
Luciana Hannibal, Freiburg University  
Marcos Morgada, Universidad Nacional de Rosario  
Daniel Murgida, Universidad de Buenos Aires  
Javier Santos, Universidad de Buenos Aires

## Applicants and How to Apply

The course is directed to advanced PhD students, postdoctoral fellows and young researchers. Financial support is available for a number of selected regional students to cover transportation and lodging.

Deadline: September, 10<sup>th</sup>.

For inquiries and application please write to Dr. Rafael Radi: [ceinbio@fmed.edu.uy](mailto:ceinbio@fmed.edu.uy)

More information: [www.ceinbio.udelar.edu.uy](http://www.ceinbio.udelar.edu.uy)