18-28 February Course “Redox chemistry and biology of thiols”
Montevideo, URUGUAY

Organiser: Gustavo Salinas (Worm Biology Lab, Institut Pasteur de Montevideo, Uruguay)
Co-organisers: Marcelo Comini (Institut Pasteur de Montevideo, Uruguay), Beatriz Alvarez and Madia Trujillo (Universidad de la República, Montevideo, Uruguay)

Contact secretaria@pasteur.edu.uy, gsalinas@pasteur.edu.uy

Thiols in proteins and cofactors serve catalytic, structural, metal-binding and regulatory functions and they are key to metabolism, signaling, antioxidant defense and protein folding. The course will provide an integrated and updated view of thiol-dependent redox processes through theoretical lectures, experimental activities, and seminars. Topics will include:

- Reactive oxygen and nitrogen species and cysteine oxidation
- Chemistry of thiols
- Chemical biology of sulfur metabolism and hydrogen sulfide
- Selenocysteine and selenoproteins
- The structural biology of redoxins
- Disulfide-bond formation and protein folding
- Thiol-dependent antioxidant systems
- Alternative thiol-based redox systems
- Metallo-thiol-based redox switches and biosensors

Participants
- Master or Doctoral students in Biology, Chemistry, Biochemistry, Biotechnology, Bioinformatics, Medicine and related areas
- Currently working, or with the prospect to work in the near future, in subjects linked to the course
- Curriculum Vitae, a motivation letter and a letter of recommendation from the tutor(s) must be included in the application

Funding
- Participants are expected to cover their own travel and living costs
- A limited number of grants covering accommodation (twin share) and meals for the duration of the course are available to ICGEB Member State nationals in the early stage of their career currently residing outside of Uruguay
- Financial support will also be available for selected foreign students under different sources of funding

Deadline 2 December 2018

Follow the event #ICGEBmeeting #Thiols #Redox

http://www.icgeb.org/meetings-2019.html