

ICGEB

Meetings and Courses 2019

ICGEB Course on Thiols 2019

Course "Redox chemistry and biology of thiols"

18-28 February, 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)

Request for information directly to: secretaria@pasteur.edu.uy, gsalinas@pasteur.edu.uy

Deadline for receipt of applications by local organisers: **2 December 2018**

CALL FOR APPLICATIONS NOW OPEN

<https://www.icgeb.org/course-application-uruguay-thiols-2019.html>

The ICGEB aims at strengthening the research capability of its Members through a comprehensive training programme and approach to promoting biotechnology internationally. The active participation of ICGEB Member States nationals in the ICGEB Meetings and Courses is therefore highly encouraged. For more information on the terms of participation and funding opportunities for this event please access the meeting website or contact the local organisers directly.

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

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 States 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

Submit your application on-line at <https://www.icgeb.org/course-application-uruguay-thiols-2019.html> by 2 December 2018

Preliminary programme - coming soon



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Topics: protein-protein and protein-ligand interactions; structural, metal-binding, and regulatory functions and their role in 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

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