

Basics concepts, theory and practice of chlorophyll fluorescence in cyanobacteria and microalgae

Profesor invitado:

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Participa: Dr. Luis Aubriot, Sección Limnología

21 al 25 de julio 2014, 45 horas
Facultad de Ciencias, Universidad de la República

PROGRAMA RESUMIDO

- 1- Photosynthesis. Functional organization of photosystems I and II.
- 2- Photosynthesis and fluorescence properties of chlorophyll a. Mathematical models.
- 3- Quantum yield, photochemical and non-photochemical quenching of fluorescence.
- 4- Measurement of *in vivo* phytoplankton fluorescence: protocols, applications.
- 5- *In vivo* biomass, spectrofluorescence, variable fluorescence.
- 5- The use of Chl *a* fluorescence to study phytoplankton ecophysiology.
- 6- Instruments, protocols, models and applications.

Practical lectures:

Field trip to visit different lakes. Sampling and use of fluorometers in natural samples and cultures. Discussion and interpretation. Final seminar (students will present results).

IDIOMA: INGLÉS

CUPOS LIMITADOS

Aplicaciones para: biotecnología, monitoreo ambiental, fisiología de microalgas y cianobacterias