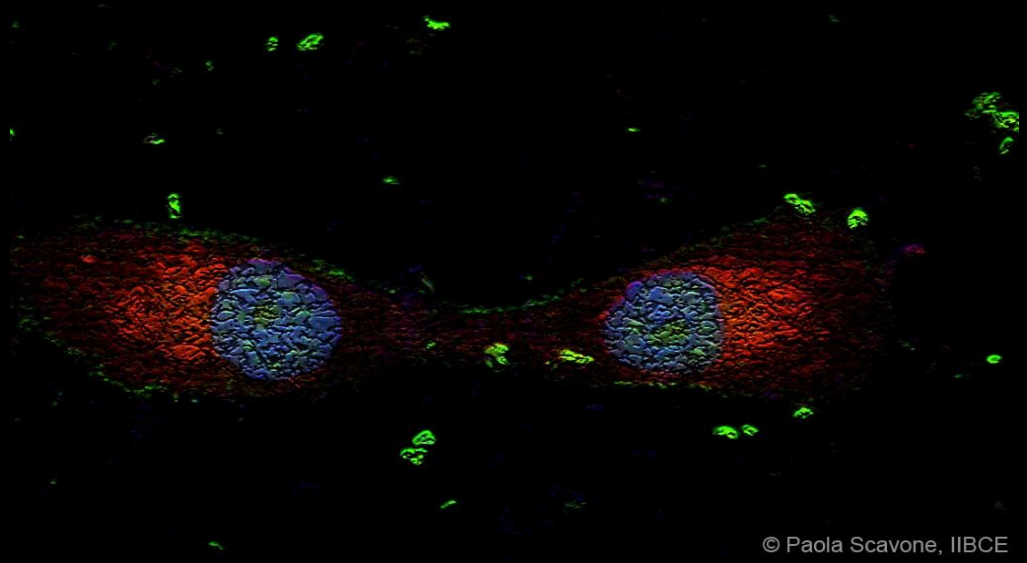
THE MICROBIAL WORLD THROUGH DIFFERENT EYES



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Organizers & host institution : Claudia Piccini, Paola Scavone, Federico Battistoni. Instituto de Investigaciones Biológicas Clemente Estable. Montevideo, Uruguay.

Confirmed speakers: Fabio Olivares (Brazil), Gilberto Weissmuller (Brazil), Steffen Härtel (Chile), Euan James (UK), Silvia Villar (Uruguay).

Participants: Admittance to the course is subjected to selection and is limited to 20 students. Applications forms available at http://www.icgeb.org/meetings-2013.html

Funding: No fee is charged to attend this course. A limited number of travel grants will be available to a selected number of nationals of ICGEB Member States. Accommodation and local hospitality for the duration of the course will be covered by organizers.

Deadline for receipt of applications at IIBCE Montevideo: 14 December 2012

Requests for information and applications directly to: claudia.piccini@gmail.com

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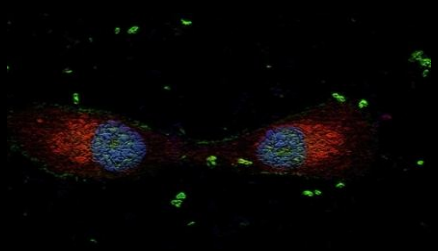

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PRELIMINARY PROGRAMME		
Day	Morning (lectures)	Afternoon (Workshops)
Tuesday (2/4)	9:30-10:00: Welcome talk. Introduction to the course and the venue (Federico Battistoni, Paola Scavone and Claudia Piccini) 10:30-12:30: Theoretical bases of EFM and CM: How to label and detect microbes (Fabio Olivares)	Student presentations
Wednesday (3/4)	9:30-11:00: Methods to analyze CM images: From the slide to relevant measurements (Steffen Härtel) 11:30-12:30: Theoretical bases of TEM, staining and labeling (Euan James)	Plant-microbe interactions (Fabio Olivares and Federico Battistoni)
Thursday (4/4)	9:30-11:00: Theoretical bases of AFM: what can we learn of it? (Gilberto Weissmuller) 11:30-12:30: SEM theoretical aspects and case studies (Silvia Villar)	Studying animal-microbe interactions (Steffen Härtel and Paola Scavone)
Friday (5/4)	9:30-11:00: Applications of EFM and CM to microbiological problems (Fabio Olivares.) 11:30-12:30: Applications of CM image analyses in microbiology research (Steffen Härtel)	Microbial community interactions (Claudia Piccini)
Saturday (6/4)	9:30-11:00: Applications of TEM to answer microbiological questions (Euan James) 11:30-12:30: Addressing interactions by AFM (Gilberto Weissmuller)	Free time
	Morning (practical course)	Afternoon (practical course)
Monday (8/4) Tuesday (9/4) Wednesday (10/4) Thursday (11/4) Friday (12/4)	Laboratory work 3 different groups will be formed; each will address a different microbiological subject (plant-microbe interactions, animal-pathogen interactions and microbial community interactions) applying all the microscopy techniques learned during the first week. EFM: epifluorescence microscopy, CM: confocal microscopy, TEM: transmission electron microscopy, SEM: scanning electron microscopy, AFM: atomic force microscopy	

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