



INTERNATIONAL CRYOEM SYMPOSIUM IN RIO

Date: November 1st to 3rd, 2023

Location: Anfiteatro Hertha Meyer, Instituto de Biofísica Carlos Chagas Filho.
Avenida Carlos Chagas Filho, 373. Centro de Ciências da Saúde, Bloco G, sala
G-22 – Universidade Federal do Rio de Janeiro (UFRJ). Rio de Janeiro, Brazil

Final Program

Wednesday (November 1st)

9:00 – 9:30	Opening session Prof. Wanderley de Souza (IBCCF-UFRJ)
9:30 – 10:30	The origins and evolution of freeze-etch electron microscopy. Prof. John Heuser (National Institutes of Health; Washington University School of Medicine; Kyoto University)
10:30 – 11h	Coffee Break
11:00 – 12:00	Multiscale-Multimodal Imaging - New Methods to Bridge Scales Prof. Mark Ellisman (University of California)
12:00 – 14:00	Lunch
14:00 – 14:20	Sponsors talk
14:20 – 15:40	Oral presentations Using electron microscopes to look into the lung - Dr. Matthias Ochs (Charité Universitätsmedizin Berlin) Cryo-Electron Microscopy Structures of the Twitching Motility Apparatus of <i>Xanthomonas citri</i> - Gabriel G. Araujo (USP – Brazil) Glycine Influence on Calcium Carbonate Growth: A Study by Advanced Electron Microscopy Techniques – Dr. Mariana M. Longuinho (CBPF – Brazil) Towards the structural characterization of the internal tube of the Type VI Secretion System of <i>Klebsiella pneumoniae</i> by Single Particle Cryoelectron Microscopy - Maria Eduarda Ferreira do Rosário (Numpex-Bio/ UFRJ – Brazil)
15:40 – 16:00	Coffee Break
16:00 – 17:00	Molecular chaperones: key actors in protein homeostasis Prof. José Valpuesta (Universidad Autónoma of Madrid)



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Thursday (November 2nd)

9:00 – 10:00	Dr. Juergen Plitzko (Max Planck Institute of Biochemistry)
10:00 – 11:00	Cryo-electron tomography as tool to peek into cells and between them. Dr. Matthias Pöege (Max Planck Institute of Biochemistry)
11:00 – 11:20	Coffee Break
11:20 – 12:20	In situ structural parasitology by cryo-electron tomography – using apicomplexan rhoptry secretion system as an example. Prof. Yi-Wei Chang (University of Pennsylvania)
12:20 – 14:20	Lunch
14:20 – 14:40	Sponsors talk
14:40 – 15:40	Oral presentations Protein Photopatterning Provides the Morphological Control for Nanometer-Scale Dissection of Cell-Cell Interactions - Dr. Moara Lemos (Institute Pasteur of Paris) Effect of temperature on calcium carbonate crystallization: a nanostructural analysis by Cryo-TEM - Maria Carolina Lopes Leão Silva (CBPF/UFRJ – Brazil) Exploring the interaction of acidocalcisomes with mitochondria in <i>Trypanosoma cruzi</i> by CryoEM - Dr. Ingrid Augusto (IBCCF-UFRJ, Brazil)
15:40 – 16:00	Coffee Break
16:00 – 17:00	Electron Microscopy in Uchinaa: Reality and Dreams Dr. Bruno Humbel (Okinawa Institute of Science and Technology)



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Friday (November 3rd)

9:00 – 10:00	Imaging macromolecular machines directly inside cells with electron cryotomography Prof. Grant Jensen (Bringham University)
10:00 – 11:00	Cryo-STEM methods for single particle structure determination Dr. Carsten Sachse (Ernst Ruska-Centre for Microscopy and Spectroscopy with Electrons)
11:00 – 11:20	Coffee Break
11:20 – 12:20	Dr. Rodrigo Portugal (LNNano-CNPEN)
12:20 – 14:20	Lunch
14:20 – 14:40	Sponsors talk
14:40 – 15:40	Oral presentations Spatially resolved ion nanodomains in subcellular compartments of <i>Trypanosoma cruzi</i> - Prof. Kildare Miranda (IBCCF/UFRJ, CENABIO, Brazil) Effect of aspartic acid on calcium carbonate crystallization: a nanostructural analysis by Cryo-TEM – Dr. Noemi Raquel Checca Huaman (CBPF, Brazil) Unveiling the Ultrastructural Organization of <i>Paratrypanosoma confusum</i> Through Cryo-Electron Tomography – Dr. Carolina Alcantara (IBCCF-UFRJ, Brazil)
15:40 – 16:00	Coffee Break
16:00 – 17:00	Closing Conference How Cryo-EM is changing the foundations of Physics Dr. Marin Van Heel (LNNano-CNPEN)

Registrations are open.

