



Facility management course By Global BioImaging & LNMA (Mexico)

21-24 February 2023
Cuernavaca, Mexico

Day 1: Tuesday, 21st of February

Themes: Measuring impact and ISO standards. Time: local time in Mexico.

- 9:00 - 9:30 **Registration**
- 9:30 - 9:45 **Global BioImaging: open, international network of imaging infrastructures and communities**
Gleb Grebnev (European Molecular Biology Laboratory, Germany)
- 9:45 - 10:00 **Course overview**
Adan Guerrero (Laboratorio Nacional de Microscopía Avanzada, National Autonomous University of Mexico, Mexico)
- 10:00 - 12:45 **Workshop #1: Measuring impact of imaging facilities (incl. 30-min working in groups)**
Claire M. Brown (McGill University, Canada)
Laurence Lejeune (Canadian Network of Scientific Platforms, Canada)
- 13:00 - 14:00 **Networking lunch**
- 14:00 - 15:00 **Seminar: The benefits of implementing ISO quality standards in research laboratories**
Flor Monica Gutierrez (The Research Quality Management Coordination [CGCI], National Autonomous University of Mexico, Mexico)
- 15:00 - 15:30 **Coffee break**
- 15:30 - 17:00 **Facility visit: Laboratorio Nacional de Microscopía Avanzada**
All participants (several groups)

* Remote speaker

** Pre-recorded presentation



Day 2: Wednesday, 22nd of February

Themes: Measuring impact and setting up and managing an imaging facility. Time: local time in Mexico.

- 9:30 - 12:00 **Workshop #2: Measuring impact of imaging facilities (incl. 30-min working in groups)**
Claire M. Brown (McGill University, Canada)
Laurence Lejeune (Canadian Network of Scientific Platforms, Canada)
- 12:00 - 12:30 **All you need to know (or almost all) to start a cryo-EM lab**
Natalia de Val (Thermo Fisher Scientific)
- 12:30 - 13:00 **Seminar: Developing Mexican BioImaging network**
Diego Delgado (Ensenada Center for Scientific Research and Higher Education, Mexico)
- 13:00 - 14:00 **Networking lunch**
- 14:00 - 15:00 **Seminar: Building a sustainable portfolio of core facilities**
Philip Hockberger (Northwestern University, USA)
- 15:00 - 15:30 **Coffee break**
- 15:30 - 17:00 **Seminars: Setting up and managing an imaging facility (continued)**
*Christina Baer (UMass Chan Medical School, USA) **
Pablo Loza (The Institute of Photonic Sciences, Spain)
Diego Delgado & Rosa Mouriño Pérez (Ensenada Center for Scientific Research and Higher Education, Mexico)
- 18:00 - 20:00 **Dinner (at own cost)**

* Remote speaker

** Pre-recorded presentation

Day 3: Thursday, 23rd of February

Themes: User training and career development. Time: local time in Mexico.

- 09:30 - 10:00 **Seminar: Success story of MSc in Biomedical Imaging in Finland**
*Diana Toivola (Abo Akademi University, Finland) **
- 10:00 - 10:15 **Training opportunities for imaging scientists**
Gleb Grebnev (Global BioImaging)
- 10:15 - 11:30 **Seminars: Training resources in microscopy**
Microlist: a user-editable, searchable database for light and electron microscopy resources
*Jennifer Waters (Harvard Medical School, USA) **
MicroscopyDB: a centralized database for disseminating microscopy resources and events
Nikki Bialy (BioImaging North America)
MyScope e-learning environment
*Jennifer Whiting (Microscopy Australia) ***
Virtual Training Platform by Global BioImaging
Gleb Grebnev (European Molecular Biology Laboratory, Germany)
- 11:30 - 12:30 **User training at SCOPE (Sanderson Center for Optical Experimentation)**
*Christina Baer (UMass Chan Medical School, USA) **
- 12:30 - 13:00 **Exchange of experience: User training in imaging facilities**
Adam Parslow (Baker Heart and Diabetes Institute, Australia)
Keshmarathy Sacadevan (Singapore Health Services Pte Ltd, Singapore)
Marcela Díaz (Institut Pasteur of Montevideo, Uruguay)
- 13:00 - 14:00 **Networking lunch**
- 14:00 - 14:45 **Group discussion: User training - increase training efficiency, information retention, reducing staff time**
Course participants
- 14:30 - 15:30 **Seminar: Career development in core facilities**
Philip Hockberger (Northwestern University, USA)
- 15:30 - 16:00 **Coffee break**

* Remote speaker

** Pre-recorded presentation



16:00 - 17:00 **Seminar: An introduction to Electron Microscopy, a powerful technique for characterizing proteins and pathogens**

Natalia de Val (Thermo Fisher Scientific)

17:00 - 18:00 **Folkloric Dance**

Performance will take place at the IBT institute

* Remote speaker

** Pre-recorded presentation



Day 4: Friday, 24th of February

Themes: FAIR principles, image data management and image data reuse through the use of image repositories. Time: local time in Mexico.

- 09:30 - 10:00 **Seminar: Principles of FAIR data**
*Jean-Marie Burel (Open Microscopy Environment, UK) **
- 10:00 - 10:30 **Seminar: Reuse of image data in IDR repository: Case studies**
*Jean-Marie Burel (Open Microscopy Environment, UK) **
- 10:30 - 11:00 **Seminar: BioImage Archive repository**
*Matthew Hartley (EMBL-EBI, UK) **
- 11:00 - 11:30 **Seminar: Setting up and managing an imaging facility**
*Chris Wood (Laboratorio Nacional de Microscopía Avanzada, National Autonomous University of Mexico, Mexico) **
- 11:30 - 12:30 **Seminar: Research data management: OMERO, cloud-based resources and tools for data management**
Claire M. Brown (McGill University, Canada)
- 12:30 - 13:30 **Exchange of experience: Data management and/or reuse in imaging facilities**
Louise Cole (University of Technology Sydney, Australia)
Abbirami Sathappan (Sidra medicine, Qatar)
Vadim Perez (Mexican Social Security Institute, Mexico)
Dayenari Caballero (Smithsonian Tropical Research Institute, Panama)
- 13:30 - 14:30 **Networking lunch**
- 14:30 - 14:45 **Talk: Image data management in microscopy research group**
Pablo Loza (The Institute of Photonic Sciences, Spain)
- 14:45 - 15:00 **Group photo**
- 15:00 - 16:30 **Facility visit: Venom animal house**
All participants (several groups)

* Remote speaker

** Pre-recorded presentation