



QUANTITATIVE BIOLOGY AXIS

BIOHEALTH DIVISION
MONTPELLIER UNIVERSITY

Montpellier -Synchrotron SOLEIL scientific meeting

Monday, April 28th, 2025 & Tuesday, April 29th, 2025

CNRS DR13 Amphitheater

The event is completely free of charge but registration is mandatory via this link:
<https://indico.synchrotron-soleil.fr/event/109/>

Please register by April 10, 2025.



Organizing Committee:

Nathalie Sibille (CBS), Aurélien Thureau and Tatiana Isabet (Synchrotron SOLEIL)

Local Organizing Committee:

Marion Boutin, Florence Lepage, Anissa Ould Bouamama (CBS), Laure Bourbon (Pôle BS)

14:00-14:10 *Introduction of the Meeting* - Nathalie SIBILLE

14:10-14:25 *Introduction of Synchrotron SOLEIL & HELIOBIO* - Frédéric JAMME (HelioBio Coordinator)

Presentation of SOLEIL Imaging beamlines

Chairperson: Aurélien THUREAU

14:25-14:50 Timm WEITKAMP (Beamline Manager) - *Micro/nano-Ptychography-Tomography - ANATOMIX/SWING*

14:50-15:10 Camille RIVARD (INRAE Associate Eng.) - *X-ray fluorescence - NANOSCOPIUM / LUCIA*

15:10-15:25 Christophe SANDT (Beamline Scientist) - *IR spectroscopy / imaging - SMIS*

15:25-15:55: Coffee break
(CNRS Amphitheater Hall)

Presentation of Montpellier projects

Chairperson: Simonetta PIATTI (CRBM)

15:55-16:15 Céline GONGORA (IRCM) - *In vitro and in vivo models for studying the tumor microenvironment and identifying new treatments in oncology*

16:15-16:35 Fabrice CAUDRON (IGMM) - *Prion-like proteins: a double-edge sword in cellular memory and aging*

16:35-16:55 Marta MENDONÇA COVA (LPHI) - *Seeing is understanding: U-ExM sheds light on Parasite Cell Biology*

16:55-17:15 Delphine MURIAUX (IRIM-CEMIPAI) - *Visualizing the assembly of enveloped viruses using super-resolution fluorescence imaging*

Presentation of SOLEIL Imaging beamlines

Chairperson: Tatiana ISABET

17:15-17:30 Hugo CHAUVET (Beamline Scientist) - *UV imaging - DISCO*

17:30-17:45 Gabriel DAVID (Biolab Manager) - *BioLABs*

17:45-18:00 Pierre MONTAVILLE (Beamline Scientist) - *SOLEIL Access*

18:00-18:30: Round Table
(CNRS Amphitheater Hall)

Presentation of SOLEIL Structural biology beamlines

Chairperson: Frédéric JAMME

- 8:30-8:45 Bill W. Shepard (Beamline Manager) - *Macromolecular crystallography - PROXIMA-1/2A*
- 8:45-9:00 Pierre LEGRAND (Beamline Manager) - *CryoEM - POLARIS*
- 9:00-9:15 Aurélien THUREAU (Beamline Scientist) - *BioSAXS - SWING*
- 9:15-9:30 Frank WIEN (Beamline Scientist) - *Synchrotron Radiation Circular Dichroism - DISCO*

Presentation of Montpellier projects

Chairperson: Csilla GERGELY (L2C)

- 9:30-9:50 Alenka ČOPIČ (CRBM) - *Interaction of perilipin proteins with lipid droplets*
- 9:50-10:10 Luca COSTA (CBS) - *In situ Atomic Force Microscopes for synchrotron beamlines*
- 10:10-10:30 Anaïs MENNY (IGF) - *How GPCRs' interactions with their environment impact their function*

10:30-11:00: Coffee break
(CNRS Amphitheater Hall)

Discussion between Montpellier researchers and SOLEIL scientists

11:00-12:00 **Speed meeting** in the Meeting room No. 1, Balard building

12:00-13:30: Lunch
&
Speed meeting continuation
(CNRS Amphitheater Hall)

12:00-15:00 **Speed meeting continuation** in the CNRS Amphitheater Hall, the Meeting room No. 1 Balard building, or the Cafeteria of the Pôle Chimie Balard

For the SOLEIL beamlines, for each presentation, “technique – beamline name” are mentioned (for example: BioSAXS – SWING).

If you would like to find out more about synchrotron techniques, leaflets illustrating the applications are available here: <https://www.synchrotron-soleil.fr/en/research/house-research/biology-health-heliobio>