

ARBRE-MOBIEU / INSTRUCT TRAINING SCHOOL QUALITY CONTROL OF SAMPLES FOR STRUCTURAL BIOLOGY

Sample preparation and optimization Towards biophysical characterization and integrative structural studies

A One week course from the 14.10.2019 to the 18.10.2019

Amphitheatre Jules Bordet

Purification Monday 14th October

- 8H30 Welcome
- 9H00 Chromatography *J.P. Boursier*
- 10H20 Break
- 10H40 Membrane protein purification *F. Gubellini*
- 12H00 End of Talks

Basic Quality control Tuesday 15th October

- 9H00 Electrophoresis and UV spectroscopy *S. Brûlé*
- 9H30 Mass Spectroscopy for QC *S. Uebel*
- 10H20 Break

- 10H40 Dynamic light Scattering and Taylor dispersion *B. Raynal*

- 11H20 Static light scattering *Malvern Panalytical*
- 12H00 End of Talks

Buffer optimization Wednesday 16th October

- 9H00 DSF and thermofluor, Stabilization of complexes and membrane proteins *M. Garcia*
- 10H20 End of Talks

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Structural techniques Thursday 17th of October

- 9H00 Using NMR for QC and structural studies *S. Knauer*
- 10H20 Break
- 10H40 Improving your Cryo-EM studies *M. Vos*
- 12H00 Break
- 13H20 Improving your HDX MS measurements *S. Brier*
- 14H30 Improving your crystallization assays *A. Mechali*
- 15H40 Break
- 16H00 Improving your SAXS Studies *P. Vachette*
- 17H10 Improving your SRCD studies *F. Wien*
- 18H20 End of Talks

Biophysical techniques Friday 18th of October

- 9H00 Analytical ultracentrifugation and other hydrodynamic techniques *B. Raynal*

From QC to Structural studies Friday 18th of October

- 13H30 Understanding the structure of Adenylate cyclase CyaA *A. Chenal*
- 14H30 Understanding the structure of protein domains involved in rabies *N. Wolff*

