

Biocitech, Romainville-Grand Paris, France



ProgramWednesday October 2nd

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8:30 Welcome coffee

8:50 Welcome address, Sylvio BENGIO, Adebiotech

9:00-9:30 Keynote Lecture

9:00 Christoph RÖSLI, Novartis, Late Phase Analytical Development (Basel) *QbD-based selection of analytical methods for development and characterization of a biotherapeutic*

Session 1 - Introduction to Protein analysis and analytical bottlenecks

Session chairs: Alain RIAUBLANC, INRA and Jacques DUMAS, Sanofi

9:30 Michel LOPEZ, IMPROVE

Challenges associated with plant proteins analysis

10:00 Guy de MARTYNOFF, Cytune Pharma

How to approach analytical bottlenecks during therapeutic protein development?

10:30 François BECHER, CEA

Mass spectrometry applications in biopharmaceutical analysis

11:00 - 11:30 Coffee break / exhibitions / posters / networking

Session 2 - Analysis of Protein/Peptides Structures and Functions

Session chairs: Céline LESUR, Ingredia and Pascal DHULSTER, Institut Charles Viollette

11:30 Audrey ROMELARD, Ingredia

Analytical approaches during milk bioactive peptide development: Lactium®'s example

12:00 Frédéric BAUDOUIN, IMPROVE

Characterization of functional properties of plant proteins

12:30 Christophe FLAHAUT, Institut Charles Viollette

Integrative approach for peptidome characterization to unravel the encrypted bioactivity of protein byproducts

1:00 Romdhane KAROUI, Univ. Artois

Front face fluorescence and mid infrared spectroscopies as a tool to study the molecular structure of proteins: relationship with their technofunctional properties

1:30 - 2:30 Buffet lunch / exhibitions / posters / networking

Session 3 - Protein aggregation and nanoparticle analysis

Session chair: Bruno GUIGLIARELLI, Univ. Aix-Marseille

2:30 Alessandro MASIERO, Sanofi

Protein aggregation: Fundamental mechanisms and in-silico predictive approaches

3:00 Adeline BOIRE, INRA

Droplet millifluidic technologies and proteins assembly

3:30 Daniel SOME, Wyatt Technology

From proteins to nanomedicines: Next steps in biophysical characterization with light scattering

4:00 Xavier HUET, Meso Scale Discovery

MesoScale Technology: multiparametric approach for therapeutic purpose from R&D to bioprocess

4:30 - 5:00 Coffee break / exhibitions / posters / networking

5:00 Constanze HELBIG, Coriolis Biopharmaceuticals (Germany)

Orthogonal analysis of aggregates and particles in biopharmaceutical products

5:30 Cédric BROSSARD, Malvern

Advanced methods in particle analysis

6:00 Arnaud DELOBEL, Quality Assistance (Belgium)

Structural characterization and epitope mapping by HDX/MS

6:30 Short presentations of exhibitors innovations

Beckman Coulter France

Eurofins

Fortébio - Molecular Devices

GE Healthcare

Malvern Panalytical

NanoTemper Technologies

PerkinElmer

PharmaFluidics

Promise Proteomics

ProteinSimple

SCIEX

Thermo Fisher

Wyatt Technology

7:30 Cocktail / exhibition / posters

Session 4 - Protein analytical methods: from AUC to SPR and High throughput methods

Session chairs: Sylvio BENGIO, Adebiotech and Guy DE MARTYNOFF, Cytune Pharma

- 9:00 Frédéric GIRARD, Eurofins
 - Advanced Analytical Methods in Bioprocessing of Therapeutic Proteins
- 9:30 Emeric GUENEAU, GE Healthcare
 - Concentration analysis and ligand-binding assays in analytical development: An emerging role for SPR
- 10:00 Quentin ENJALBERT, ANAQUANT
 - A full solution for HCPs quality control analysis through the downstream process by LC-MS
- 10:30 Bertrand RAYNAL, Institut Pasteur
 - Analytical ultracentrifugation applications
- 11:00 11:30 Coffee break / exhibitions / posters / networking
- 11:30 Alexey RAK, Sanofi, IDD Structure Design & Informatics (SDI)
 - Novel Low-Protein Consuming High Throughput Biophysical Methods for mAbs, ADCs and Multi-Specific Biologics Characterization
- 12:00 Marcin MOCZULSKI, SCIEX
 - Characterization of glycoforms by high throughput glycan screening
- 12:30 Yannis FRANÇOIS, Univ. Strasbourg, LSMIS
 - Advance in capillary electrophoresis: application to the characterization of biotherapeutics
- 1:00 2:30 Buffet lunch / exhibitions / posters / networking

Session 5 - Emerging approaches and technologies

Session chair: Valérie BELLE, Univ. Aix-Marseille

- 2:30 Bruno GUIGLIARELLI, Univ. Aix-Marseille
 - Electron Paramagnetic Resonance for Protein Studies: Investigating Dynamic Properties and Structural Changes in Proteins
- 3:00 Gilles JAOUEN, PharmaFluidics (Gent, Belgium)
 - A novel robust LCMS approach using micro Pillar Array Columns (μPAC™)
- 3:30 Christophe QUÉTARD, FortéBio-Biologics by Molecular Devices
 - Cell line development: accelerating antibody discovery by monitoring titer and glycosylation with the Octet platform
- 4:00 Anne SÉVÉRAC, Sanofi Protein Science and Technology
 - Microfluidics-based automated electrophoresis to support characterization of Biotherapeutics : case-studies
- 4:30 Pierre SOULE, NanoTemper Technologies
 - Quality control with the Tycho NT.6®: seeking the unseen about your protein
- 5:00 5:30 Coffee break / exhibitions / posters / networking

5:30 F	Presentation	of F	lash	posters
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- 5:30 Daniel SOME, Wyatt Technology

 Characterization of multivalent-multivalent biomolecular interactions with CG-MALS
- 5:35 **Jean MERCIER**, Genedata AG

 Employing the MS-based Multi-attribute Method (MAM) for Automated Quality Monitoring of Biotherapeutics
- 5:40 Philippe VASSAULT, Waters
 Online IEX-MS Characterization and Monitoring of mAb Charge Heterogeneity Using an Optimized Cation
 Exchange Resin and Compact TOF Mass Spectrometer
- 5:45 Frédéric VIOLLEAU, Toulouse FFF Center Ecole d'Ingénieurs de PURPAN

 Toulouse FFF Center (TFFFC): Performance of Field-Flow Fractionation techniques for milk protein characterization
- 5:50 **Rémy COCHEREAU**, UR1268 Biopolymères, Interactions et Assemblages, INRA, 44000 Nantes, France Using microfluidics to investigate the role of membrane on liquid-liquid phase separation of proteins
- 5:55 Nicolas AUTRET, Covaris
 Reproducible and Hands-off Sample Preparation Workflow for Mass Spectrometry with Focused,
 Acoustics-Based Ultrasonication
- 6:00 General Conclusions and end of Conference