« Challenges and Opportunities in Protein Analytics »

Friday March 10th, ULB Campus La Plaine

Organized by the F.R.S-FNRS Graduate School SFMBBM and the Belgian Biophysical Society

The workshop is aimed at sharing academic and company experience related to the use of innovative analytical methods designed to solve current challenges in protein analytics, with an emphasis on protein glycosylations and structural stability (aggregation, deamidation, oxidation,…).

PROGRAM

- 8:30 to 9:00 – **Registration**
- 9:00 to 10:15 - **Innovative analytical tools and platforms**
  - Dr. Patrick England (ARBRE-MOBIEU network, and Molecular Biophysics Facility-Institut Pasteur): "ARBRE-MOBIEU: an inclusive pan-European network for the molecular biophysics resource community"
  - Dr. Mario Lebendiker (Head of The Protein Purification Facility, The Hebrew University of Jerusalem): "The Protein Purification Facility: Case studies in phosphorylation and glycosylation heterogenicity and others"
  - Prof. Erik Goormaghtigh (SFMB, Université Libre de Bruxelles): "Protein profiling by FTIR spectroscopy: from single sample to high throughput analyses"
- 10:15 to 10:45 – **Coffee break**
- 10:45 to 12:00 - **Focus on glycosylation analytics**
  - Prof. Nico Callewaert (VIB, Universiteit Gent): "Customizing protein N-glycosylation to enhance biopharmaceutical characteristics – Case studies"
  - Dr. Cédric Delporte (Pharmacy Department, Université Libre de Bruxelles): "LC-MS analysis combined with PCA and SIMCA for a better detection of changes in N-glycosylation profiles of therapeutic proteins"
  - Dr. Arnaud Delobel (R&D Director, Quality Assistance): "Advances in LC/MS methodologies for the characterisation of complex glycoproteins"
- 12:00 to 12:30 - **Roundtable with all the morning speakers**
- **12:30 to 13:45 - A light lunch will be served**
- 13:45 to 15:00 – **High-throughput methods and spectroscopy**
  - Dr. Bénédicte Gbaguidi (Scientist, GSK): "Antigen characterization in complex matrix samples"
  - Dr. Allison Derenne (CEO, Spectralys Biotech): "FTIR spectroscopy as a multi-parameter analytical tool for stability studies and batch consistency testing of therapeutic proteins"
  - Dr. Julie Vandenameele (CIP, University of Liège): "Robotein® - A robotic platform dedicated to protein chemistry"
- 15:00 to 15:30 – **Coffee break**
- 15:30 to 16:45 - **Case studies on structural stability**
  - Dr. Bertrand Raynal (Molecular Biophysics Facility-Institut Pasteur): "Quality control of purified proteins, one of the keys to success"
  - Mr. Dany Fluchard (GMP QC manager, Eurogentec): "Study of the glycosylation impact on a protein activity"
  - Dr. Philippe Ledent (CSO, Xpress Biologics): "Rational selection of analytical methods for process development of biologics"
- 16:45 to 17:00 - **Roundtable with all the afternoon speakers**

LOGISTICS

- **Venue:** UAE (Union des Anciens Etudiants), ULB, Campus La Plaine, Boulevard du Triopmphe Accès 2, 1050 Brussels, Metro Delta (Line 5)
- **Registration is free but mandatory; please send an email before March 1st to secretariat.sfmb@ulb.ac.be to confirm your attendance** (Subject: "Invitation to SFMBBM conference"; please mention your name, affiliation and position)
- Contacts: Prof. Erik Goormaghtigh (egoor@ulb.ac.be) and Dr. Allison Derenne (allison.derenne@spectralysbiotech.com)