



Impression of Corda Campus, Hasselt. The former Philips site and current a local nucleus of transformation and innovation



10th EBF Young Scientist Symposium

Open Up
Explore, Transform, Innovate

10th Young Scientist Symposium * 16-17 May 2024**

(Incl. 2nd EBF University *** 15 May 2024 (13-19h))

Venue: The Radisson Blu - Hasselt - Belgium

Wednesday 15 May 2024

11:00 **Registration desk opens**

13:00 **19:00** **EBF University 2.0**

Agenda is under construction

We continue to build on the training material from the 1st EBF University (at the 9th YSS, 2023) (plenary - part 1) and expand into including hands-on round tables discussing real case studies in giving examples of how bioanalytical expert support (issue resolving, overall project support...) integrated into preclinical and clinical project teams adds value (round tables - part 2). The case studies will be moderated by (senior) experts from the EBF community or their network. Delegates will be assigned to the case studies considering their interest and expertise (2 or 3 case studies per round table).

Thursday 16 May 2024

8:00 **Registration desk opens**

8:45 **9:00** **Welcome and introduction to the 10th YSS**

Philip Timmerman, EBF

9:00 **10:40** **Session 1: The Science of Sustainability**

Session chairs: under discussion in OC

9:00 **9:20** Manca Spendal, Novo Nordisk

Microsampling in Toxicokinetic Studies: Reducing Animal Use and Enhancing Data Quality

9:20 **9:40** Nadine Commandeur, Sanquin Diagnostic Services

Replacing radioactivity, reducing assay reagents and refining assay strategy - a glimpse into the new era of bioanalysis

9:40 **10:00** Rose Nicol, AstraZeneca

Utilisation of VAMS to reduce sample volumes in pre-clinical toxicological studies in drug discovery

10:00 **10:20** Tien Nguyen, Sanquin Diagnostic Services

Singlicate analysis strategy does work for antibody PK using ligand binding assays: the evidences from ELISA

10:20 **10:40** Hanna de Baets, Ghent University

Development and validation of an LC-MS/MS method for simultaneous determination of iohexol and creatinine for GFR estimation in cats using VAMS samples

10:40 **10:50** **Introduction to the 10th YSS Science Café**

10:50 **11:20** **Coffee break - DL for poster hanging**

11:20 **12:40** **(Parallel) Session: New Technology LC-MS**

Session chairs: under discussion in OC

11:20 **11:40** Aline Vollmer, Saarland University

- Clinical toxicological analysis of toxins by means of antibody-based enrichment and liquid chromatography-high-resolution tandem mass spectrometry*
- 11:40 12:00 Andrea di Ianni, Merck KGaA
Unlocking the complexity of antibody-drug conjugated: a cutting-edge Liquid Chromatography High Resolution Mass Spectrometry approach for detecting conjugated payload metabolites
- 12:00 12:20 Frank Schalk, ICON
Simultaneous isotyping and semi-quantitation of anti-drug antibodies to a monoclonal IgG1 biotherapeutic using hybrid-LC-MS/MS
- 12:20 12:40 Open Slot
tbd
- 11:20 12:40 (Parallel) Session: New Technology LBA**
Session chairs: under discussion in OC
- 11:20 11:40 Eva Hanckmann, Byondis
How to determine the exposure of masked ADCs: active or inactive drug?
- 11:40 12:00 Michele Azzolini, AstraZeneca
Fabs and tags, challenges and considerations when developing a ligand-binding immunoassay
- 12:00 12:20 Annabel Hood, Resolian
Challenges in the development of a generic PK assay to measure the distribution of human biologics in mouse brain
- 12:20 12:40 Lisa Wolter, AbbVie
Development of Anti-AAV Antibody Assays to assess pre-existing immunity in study population
- 12:40 13:30 Lunch - tables grouped to start Science Café discussions**
- 13:30 16:00 10th Science Cafe (Format: round table)**
- 16:00 16:40 Discussions @ posters during coffee break**
- 16:40 18:00 (Parallel) Session: When things go wrong in LC-MS/MS**
Session chairs: under discussion in OC
- 16:40 17:00 Aliz Szelez, Semmelweis University
Enabling toxicokinetic characterisation of 2,3-epoxypropyl isopropyl ether in the rat by substantial sensitivity improvement of the MS/MS detection
- 17:00 17:20 Jennifer Hawkins, Resolian
Take a Breath: The HILIC Hurdle in Validating Inhaled Cancer Probe Therapeutics
- 17:20 17:40 Sebastian Zimmermann, Nuvisan
Unveiling the significance of temperature control for large molecule LC-MS bioanalysis
- 17:40 18:00 Open Slot
tbd
- 16:40 18:00 (Parallel) Session: When things go wrong in LBA**
Session chairs: under discussion in OC
- 16:40 17:00 Richie Lofthouse, GSK
Everything, Everywhere, All at Once: Troubleshooting lot-lot variability and analyte stability issues on the ELLA platform
- 17:00 17:20 Lisanne Dijk, Sanquin Diagnostic Services
How to deal with pre-existing antibodies and interference in immunoassays
- 17:20 17:40 Anna Kucher, Ardena
Navigating Anomalies: Optimization of a peptide Anti-Drug Antibody assay
- 17:40 18:00 Chiel van Geffen, Sanquin Diagnostic Services
Matrix effects in a sC5b-9 ELISA
- 19:30 22:30 10th YSS Conference Dinner**

Friday 17 May 2024

- 9:00 10:10 Session: Biomarkers**
Session chairs: under discussion in OC
- 9:00 9:10 Philip Timmerman, EBF
Introduction to Biomarkers - CoU
- 9:10 9:30 Liesl Heughebaert, Ghent University

Assessment of the status of thiamine and the alcohol biomarker phosphatidylethanol 16:0/18:1 in the Belgian adult population using volumetric absorptive microsampling: results from the Belgian Food Consumption Survey

9:30 9:50 Alex Mulvanny, MEU
Sputum Supernatant Biomarker Assay Validation

9:50 10:10 Manca Spental, NovoNordisk
title tbc

10:10 11:00 Discussions @ posters during coffee break

11:00 12:00 (Parallel) - Case studies from EBF University unraveled - focus on NCEs/chromatographic assays

Session chairs: under discussion in OC

11:00 11:20 Case Study 1
Presented by case study moderator from the EBF University

11:20 11:40 Case Study 2
Presented by case study moderator from the EBF University

11:40 12:00 Case Study 3
Presented by case study moderator from the EBF University

11:00 12:00 (Parallel) - Case studies from EBF University unraveled - focus on NBEs/LBA or CBA

Session chairs: under discussion in OC

11:00 11:20 Case Study 4
Presented by case study moderator from the EBF University

11:20 11:40 Case Study 5
Presented by case study moderator from the EBF University

11:40 12:00 Case Study 6
Presented by case study moderator from the EBF University

12:00 13:00 Lunch break

13:00 14:20 Session: And now for something completely different

Session chairs: under discussion in OC

13:00 13:20 Jakob Alhede, AstraZeneca
Branched DNA – “To be a GLP assay or not to be? That is the question.”

13:20 13:40 Manon Chevallot-Beroux, Sanquin Diagnostic Services
Monocyte Activation Test (MAT); adaptable to serve any product

13:40 14:00 Anna Marzeda, AstraZeneca
Sense and Sensibility, or how to deliver timely and high-quality bioanalytical support of disruptive biology drug products (and stay sane)

14:00 14:20 Open Slot
tbd

14:20 15:00 Discussions @ posters during coffee break

15:00 16:20 (Parallel) Session: LC-MS new Technologies

Session chairs: under discussion in OC

15:00 15:20 Marie Reille-Seroussi, Sanofi
Automated immunocapture of biotherapeutics for LC-MS analysis: Comparison of the AssayMAP Bravo and KingFisher™ robotic platforms.

15:20 15:40 Elisa Milandri, Bologna University
Volumetric absorptive microsampling and fully-automated sample treatment in a patient-centric study aimed at modern therapeutic drug monitoring

15:40 16:00 Dorian van Kuijk, Byondis
The quantification of intracellular phosphonate levels by LC/MS

16:00 16:20 Daniel Diaz, NovoNordisk
Sample preparation strategies for low concentration biomarker assays in human plasma

15:00 16:20 (Parallel) Session: Small

Session chairs: under discussion in OC

15:00 15:20 Klara Szydlo, BioAgilytix

Application of the MSD S-PLEX platform for measuring PK of low amounts of an RNA-LNP translational bispecific antibody

15:20 15:40 Laura Boffel, Ghent University

Self-sampling by adolescents at home: assessment of the feasibility to collect qualitative samples by unexperienced individuals

15:40 16:00 Nina Hilbert, AbbVie

Evaluation of ADC brain delivery in rodents via cerebrospinal fluid administration leveraging in vivo cOFM

16:00 16:20 Roberta Di Lecce, University of Bologna

The role of dry and wet microsampling in the analytical workflow for the determination of sports doping agents

10 min. logistic break

16:30 16:45 Announcement 2024 YSS Best Poster Winner

16:45 17:00 Evaluation of the EBF University v2.0 + Closing Remarks and Adjourn

Patrons of the 10th YSS

We thank our patrons of the 10th YSS for their support: BioAgilytix, Boehringer Ingelheim, ICON, F.Hoffmann-La Roche and Merck KGaA

Meeting Organisation (OC)

Eva Hanckmann, Byondis; Kevin Vandenbroucke Ghent University; Caroline Dumolyn, Sanofi; Friederike Vogt, BioAgilytix; Simon Wellenberg and Aline Vollmer; Saarland University; Kyriel Pineault, UCB Pharma; Lisa Wolter, Abbvie; Paul Heads, Orion Pharma; Marie Sole Giordano, Swiss Bioquant; Fabian Gaertner, Nuvisan; Claire Szuster, Resoliant; Manca Spental, NovoNordisk; Amelia Roberts, Quotient Sciences; Harriet Thomas (until January 2024) and Sanam Ahmad (from January 2024), GSK; Alina Zanga, Celerion; Jayshree Maher, AstraZeneca (until January 2024); Mariana Carneiro Da Cunha, Intertek; Sara Russo, ICON; Marie Reille-Seroussi, Sanofi; Andrea Di Ianni, Merck KGaA; Manuel Muenzer and Brian Dan, F. Hoffmann La Roche, Alexandra Bushby, Labcorp Drug Development; Elisa Milandri, University of Bologna and Sonya Belle, Charles River Laboratories.

Meeting Management: Philip Timmerman (EBF)

The symposium is organised as a non-profit event by the EBF vzw. The organisation of the conference is independent from the EBF member companies