



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**

2nd EBF University

13:00 **18:30** **EBF University 2.0**

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.

The case studies will be either 'unassisted data mining', moderated by a young scientist with expertise in the case study or moderated by a senior expert from our member companies

13:00 **13:18** **Introduction - project management in Drug R&D (Philip Timmerman, EBF)**

13:18 **13:20** **The next generation of drugs (AI & ChatGPT)**

13:20 **15:20** **Project support critical to drug R&D success**

13:20 13:40 *Drugability (Joao Pereira, Merck KGaA)*

13:40 14:00 *An introduction to Biomarkers (Peter Groenen, Curare)*

14:00 14:20 *Project support: focus on nonclinical development (Samuel Pine, Sanofi)*

14:20 14:30 *An introduction to Immunogenicity (Samuel Pine, Sanofi)*

14:30 15:00 *Project support: focus on clinical development (David Carlile, Roche)*

15:00 15:20 *Translational Sciences unravelled (Peter Groenen, Curare)*

15:20 **16:00** **Q&A, coffee break and Case study preparation**

16:00 **17:30** **Case studies**

Case studies will be moderated by senior experts and/or scientist with direct involvement in the case study.

We received 11 case studies. Each delegate will get the opportunity to contribute to the discussion of 3 case studies (taking into account their expertise). For this, we will assign the delegates to small teams with either Chromatography or LBA/CBA expertise. On Friday, we will present 8 out of 11 case studies to allow maximum exposure of the delegates to the issues presented in the case studies.

16:00 16:40 *Case studies round 1 - 10min buffer time for logistics purposes*

16:50 17:30 *Case studies round 2 - 10min buffer time for logistics purposes*

17:40 18:20 *Case studies round 3 - 10min buffer time for logistics purposes*

18:20 **18:30** **Close out remarks preparing for the 10th YSS and Adjourn**

Free evening in Hasselt - no social event planned by the EBF YSS

EBF UNI Organisation

The 2nd EBF University program was prepared by the EBF with input from experts from our BioA community and adjacent disciplines (e.g.; nonclinical & clinical safety, DMPK, clinical PK, pharmacology, modelling & simulation and project management)

Thursday 16 May 2024

- 08:00** **Registration desk opens**
- 08:45** **09:00** **Welcome and introduction to the 10th YSS**
Philip Timmerman, EBF
- 09:00** **10:40** **Session 1: The Science of Sustainability**
Session chairs: Paul Heads, Orion Pharma and Friederike Vogt, BioAgilytix
- 09:00 09:20 Manca Spendal, Novo Nordisk
Microsampling in Toxicokinetic Studies: Reducing Animal Use and Enhancing Data Quality
- 09:20 09:40 Nadine Commandeur, Sanquin Diagnostic Services
Replacing radioactivity, reducing assay reagents and refining assay strategy - a glimpse into the new era of bioanalysis
- 09:40 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**
Science Café moderators: Fabian Gaertner, Nuvisan and Kyriel Pineault, UCB Pharma
- 10:50** **11:20** **Coffee break - DL for poster hanging**
- 11:20** **12:20** **(Parallel) Session: New Technology LC-MS**
Session chairs: Manuel Muenzer and Brian Dan, F. Hoffmann La Roche
- 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
- 11:20** **12:40** **(Parallel) Session: New Technology LBA**
Session chairs: Rosie Penford, AstraZeneca and Sanam Ahmad, GSK
- 11:20 11:40 Eva Hanckmann, Byondis
How to determine the exposure of masked ADCs: active or inactive drug?
- 11:40 12:00 Jakob Alhede (replacing 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** **15:30** **10th Science Café (Format: round table)**
Science Café moderators: Fabian Gaertner, Nuvisan and Kyriel Pineault, UCB Pharma
During the 10th EBF YSS conference, we will host the traditional Science Café, a roundtable discussion to promote dialogue on key topics and themes pertinent to the community. The topic for this year will be **sustainability**. We have divided the conversation into 3 key focus areas:
- Sustainability before lab work
 - Sustainability during lab work
 - Sustainability after lab work

To allow a focused discussion and get you thinking about this interesting topic, we have prepared a short survey to get your opinions and ideas, and to help build the discussion at the meeting. The survey will be sent to the registered delegates around April 10th

15:30 16:40 Poster Pitch and posters discussion embedded in the coffee break

We will include a poster pitch session (i.e. 5-min short poster pitch by those signing up) in the first 30 minutes of the coffee

16:40 18:00 (Parallel) Session: When things go wrong in LC-MS/MS

Session chairs: Amelia Roberts, Quotient Sciences and Alexandra Bushby, Labcorp Drug Development

16:40 17:00 Aliz Széles, Semmelweis University; Research Centre for Natural Sciences and Toxi-Coop Toxicological Research Centre (all located in Budapest)

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

We continue to be open and flexible to accept any late submission fitting this session. Contact yss@e-b-f.eu for information.

16:40 18:00 (Parallel) Session: When things go wrong in LBA

Session chairs: Alina Zanga, Celerion and Caroline Dumolyn, Sanofi

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

09:00 10:10 Session: Biomarkers

Session chairs: Sonya Belle, Charles River Laboratories and Fabian Gaertner, Nuvisan

09:00 09:10 Philip Timmerman, EBF

Introduction to Biomarkers - CoU

09:10 09:30 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

09:30 09:50 Alex Mulvanny, MEU

Sputum Supernatant Biomarker Assay Validation

09:50 10:10 Manca Spondal, Novo Nordisk

Cross-functional collaboration and agreement on context of use – case study

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

11:00 12:00 (Parallel) - Case studies from EBF University unraveled

Session chairs: Claire Szuster, Resolian and Paul Heads, Orion Pharma

11:00 11:15 Feedback from the Byondis case study 01 discussed at the EBF University

Eva Hanckmann, Byondis

11:15 11:30 Feedback from the Quotient Sciences case study discussed at the EBF University

Amelia Roberts, Quotient Sciences

11:30 11:45 Feedback from the ICON case study 01 discussed at the EBF University

Frank Schalk, Icon

11:45 12:00 Feedback from the GSK case study discussed at the EBF University

Sanam Ahmad, GSK

11:00 12:00 (Parallel) - Case studies from EBF University unraveled

Session chairs: Alex Bushby, Labcorp Drug Development and Rosie Penford, AstraZeneca

11:00 11:15 Feedback from the Sanofi case study discussed at the EBF University

Caroline Dumolyn, Sanofi

- 11:15 11:30 Feedback from the ICON case study 02 discussed at the EBF University
Sara Russo, Icon
- 11:30 11:45 Feedback from the Novo Nordisk case study discussed at the EBF University
Manca Spendal, Novo Nordisk
- 11:45 12:00 Feedback from the Genmab case study discussed at the EBF University
presenter tbc, Genmab
- 12:00 13:00 Lunch break**
- 13:00 14:20 Session: And now for something different**
Session chairs: Kyriel Pineault, UCB Pharma and Simon Wellenberg, Saarland University
- 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 Nina Hilbert, AbbVie
Evaluation of ADC brain delivery in rodents via cerebrospinal fluid administration leveraging in vivo cOFM
- 14:20 15:00 Discussions @ posters during coffee break**
- 15:00 16:20 (Parallel) Session: LC-MS new Technologies**
Session chairs: Claire Szuster, Resolian and Kevin Vandenbroucke Ghent University
- 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, Novo Nordisk
Sample preparation strategies for low concentration biomarker assays in human plasma
- 15:00 16:20 (Parallel) Session: And now for something completely different**
Session chairs: Eva Hanckmann, Byondis and Sara Russo, ICON
- 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 Mohammed Binyameen Khan, Labcorp
Challenges Of Developing an Optimized Drug Tolerant Neutralising Antibody Assay, with Cost, Complexity and Time Efficiency in Mind
- 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 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, Resolian; Manca Spendal, NovoNordisk; Amelia Roberts, Quotient Sciences; Harriet Thomas/Sanam Ahmad (until January 2024/from January 2024), GSK; Alina Zanga, Celerion; Jayshree Maher/Rosie Penford, AstraZeneca (until January 2024/from February 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, Jaysree Maher, Invov Pharma (from March 2024).

Meeting Management: Philip Timmerman (EBF)

