

Analysis of Biopharmaceuticals

Scheduled 22 April 2017, 10:00 - 16:00

VU Amsterdam, de Boelelaan 1105, Amsterdam

Content

Pharmaceutical proteins take an increasingly important position in today's drug development and production. Monoclonal antibodies (mAbs) and derivatives thereof constitute the most prominent and fastest growing class of human therapeutics against life-threatening diseases such as cancer. Quality control of mAbs is essential to ensure activity, efficacy and safety. This course focuses on the use of mass spectrometry (MS) for the compositional characterization of intact, mildly reduced and drug-conjugated mAbs.

Target audience

This course is taught in the framework of the MSc+ program for talents in Master (university) education. Therefore, the course is appropriate for employees at that level.

Topics

The course is highly practical requiring active participation of the students.

- Introduction on biopharmaceutical analysis (lecture)
- LC-MS analysis of a therapeutic mAb (lab work)
- Introduction to protein MS data handling (interactive instruction)
- Characterization of a therapeutic mAb by computer-aided interpretation of MS spectra (computer lab)
- MS-based characterization of an antibody-drug conjugate (computer lab)

Lecturers



Prof. Dr. Govert W. Somsen

Somsen is full professor Biomolecular Analysis/Analytical Chemistry at VU University. His research interests include compositional and conformational characterization of intact biomacromolecules using advanced separation techniques in combination with state-of-the-art mass spectrometry.



Dr. Rob Haselberg

Haselberg is postdoctoral researcher at the BioMolecular Analysis group at VU University. His research focuses on the characterization of (intact) biomacromolecular compounds using a variety of analytical platforms. He supervises the CE and CE-MS laboratory of the group.



Dr. Elena Dominguez Vega

Dominguez Vega is postdoctoral researcher at the BioMolecular Analysis group at VU University. Her research involves the analysis of biopharmaceuticals and the study of protein affinity using CE-MS, LC-MS and CE-SPR.

At the end of the course

You will have gained detailed practical knowledge on the MS analysis of pharmaceutical proteins.

Course duration and time investment

Course duration:	1 day from 10:00 till 17:00
Company time:	0 hours (as this course is on a Saturday)
Participant's investment:	1 day + optional self-study

Extra Information

This course is taught in the Saturday program of MSc+ program and is taught every two years.

Course fees:

- €800 (ex. BTW/VAT) per day
- COAST members pay a reduced fee of €400 per day (ex. BTW/VAT) or use a wildcard
- ASTP / MSc+ students: Free

Special fees can be offered to PhD students and companies registering for three or more persons.

For up-to-date information about the course program visit our website at www.ti-coast.com/L3.

Please contact us for more information.

Registration

To register fill out, sign and email the form attached to lifelonglearning@ti-coast.com.

Registration Form

Biopharmaceuticals
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Name	
Organization	
Address	
Billing address (if different from above)	
Educational background	
Email address	
Phone number	

Payment

- I will pay the full course fee of €800 per day (ex. BTW/VAT)
- I qualify for 50% discount, because my employer is a COAST participant, and will pay €400 per day (ex. BTW/VAT)
- I am a PhD student and will pay €400 per day (ex. BTW/VAT)
- I am a PhD student from a group participating in COAST and will pay €200 (ex. BTW/VAT) per day
- I have received a wildcard from: Therefore, I will follow this course for free (note: this person must receive a copy of your registration mail, to indicate approval)

Date:

Place:

Signature:

To register, please email the duly signed registration form to lifelonglearning@ti-coast.com