Quantitative Bioanalysis using LC-MS for Pharma Industry
20 & 21 September 2011
Window Conference Venue, London

Overview

This advanced application-oriented two-day course in LC-MS pays attention to the important aspects of quantitative bioanalysis by LC-MS, except for statistical aspects in data-processing. Starting from providing knowledge on important processes in analyte ionization by electrospray or APCI, the course provides a profound understanding of the important topics of quantitative bioanalysis using LC-MS. Quality control in instrument performance, method development, and systematic troubleshooting are key issues throughout the course. The theoretical parts are illustrated with a number of case studies. Experience with the LC-MS instrumentation is recommended prior to attending this course The aim is to provide the participants with the general principles, background knowledge, and how to use this knowledge in practice.

Course Speakers:

Wilfried Niessen has almost 30 years of experience as a researcher and project manager in the field of analytical mass spectrometry, and especially liquid chromatography – mass spectrometry. Since 1996, he works as an independent consultant, providing expert consultancy and (advanced) courses in analytical mass spectrometry. In 2002, he was appointed (part-time) extraordinary professor in bioanalytical mass spectrometry at the Faculty of Science of the VU University in Amsterdam, where he is currently interim Head of the Division BioMolecular Analysis.

He has been involved in many different consultancy projects within industry, governmental institutes and other laboratories in the Netherlands, Belgium, Italy, Germany, Denmark, Sweden, United Kingdom, Switzerland, Slovenia, Israel, Hong Kong, China, India, and Canada.

In addition, in the past 14 years he provided more than 320 courses with in total more than 3400 participants. He is (co)author of more than 160 refereed papers in the field of LC–MS. The third edition of his book Liquid Chromatography – Mass Spectrometry was published in October 2006. He co-edited several special volumes of Journal of Chromatography A (794, 970, 974, 1058, 1067, and 1159) on "Mass Spectrometry: Innovation and Application". He is the editor of Volume 8: Hyphenated Methods of the Encyclopaedia of Mass Spectrometry, published in 2006 by Elsevier.

William van Dongen holds a PhD (1996) in peptide and protein mass spectrometry. Since then, he has worked as an industrial researcher, project manager and laboratory manager in the field of bioanalytical mass spectrometry and liquid chromatography – mass spectrometry. He was responsible for setting up the bioanalytical LC–MS facility of Pharma
Bio-Research (currently PRA International), one of the first contract laboratories offering commercial LC–MS services to the pharma industry. He has almost ten years experience as study director of bioanalytical LC–MS studies. He started up the mass spectrometry facilities for the generic pharmaceutical company Synthon and for his current employer PROXY, a pharma contract laboratory.

He is (co-) author of 25 refereed papers in the field of protein and peptide mass spectrometry and bioanalytical LC–MS.

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Course Programme

The course will commence with registration and coffee at 8.30, course proper starts at 9.00 and will finish at 17.00

Day 1

09:00 Introduction. Introduction to LC–MS. System overview. Data-acquisition and processing. Role of LC–MS in quantitative bioanalysis.

10:15 Coffee break

10:30 Analyte ionisation for LC–MS: electrospray and atmospheric-pressure chemical ionisation. Instrumentation, chemistry, ionisation mechanism, flow-rates, mobile-phase composition. Introduction to matrix effects.

12:30 Lunch break

13:30 Information from LC–MS mass spectra. The analyte mass spectrum is a diagnostic tool. One should learn to appreciate the information that is present in the spectrum, e.g., adductions and adduct-bound dimers, but also topics related to average and monoisotopic mass, mass defects, and isotope peaks.

15:00 Coffee break

15:15 Workflow in quantitative analysis using LC–MS: Sample pretreatment, liquid chromatography, analyte ionisation, mass spectrometry, data processing.

17:00 End of the first day.

Day 2

09:00 Method development - 1: General aspects. Selected reaction monitoring (SRM). Selection of transitions. Multiresidue methods. Selection of an appropriate internal standard. General method development.

10:15 Coffee break

10:30 Method development - 2: Matrix effects. Methods to evaluate sample pre-treatment and separation methods with respect to matrix effects.

12:30 Lunch

13:50 Method development - 3: Sample pre-treatment methods and liquid chromatography aspects for bioanalysis. Directives for method development.

15:00 Coffee break

15:15 Selected applications. Validation and troubleshooting: Recognition of problems, detection and solution to problems.

17:00 End of the second day and end of the course.

Venue

Window Conference Venue 13 Windsor Street, Islington London, N1 8QG convenient for central London, in a pleasant informal setting.

Accommodation and travel directions are available on our website

www.pharma-training-courses.com

Terms and Conditions:

Delegate fees: Fees for this programme are shown overleaf. Delegate fees are inclusive of course documentation, refreshments and lunch. Payment of the registration fee must be paid within 14 days of commencement of the course. Upon receipt of payment, a proof of payment will be sent to you. **Cancellation Policy:** Full refunds less a handling fee of £100 will be made for cancellations received in writing within 28 days of the commencement of the course. Refunds of 50% will be made for cancellations received in writing between 28 and 7 days prior to the commencement of the course. Regrettably no refunds will be made after 7 days prior to commencement of the course. Substitutions can be made at any time.

Liability: PharmaTraining Ltd reserves the right to change the programme, speakers, date or venue without notice or cancel the event. If cancellation occurs delegates will be notified as soon as possible and will receive full refund of fees paid.

PharmaTraining Ltd will not be responsible for any airfare, accommodation or other travel costs incurred.

For 5 or more staff requiring training it may be beneficial to run a course in-house.

The benefits of running a course in-house:

- Up to 70% savings on delegate fees
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Contact **Judy Callanan at any time to discuss**
Ph: 0044 (0)20 7193 7703, Fax: 0044 (0)20 7681 3582
Email: **judy@pharma-training-courses.com**

Course Programme 2011

Planning for Commercial Launch: 29 & 30 March 2011
GMP Auditor Training: New Jersey USA - 11 & 12 April 2011, London - 9 & 10 May, 7 & 8 November 2011
How to Audit API Manufacturers: New Jersey USA - 13 April 2011, London - 11 May, 9 November 2011
Supply Chain Management in Pharma/Biotech: 5 & 6 May 2011
Technology Transfer: London - 9 & 10 May, 7 & 8 November 2011
Integrated Tablet Formulation Development: New Jersey USA - 7 & 8 April, London 9 & 10 June, 24 & 25 November 2011
Tablet Process Development, Validation and the application of QbD: New Jersey USA - 11 & 12 April London - 13 & 14 June, 28 & 29 November
Pharmacokinetics in Drug Development - an Integrated Approach: 9 & 10 June 2011
An Introduction to LC/MS: 19 September 2011
Quantitative Bioanalysis using LC-MS: 20 & 21 September 2011
Writing effective SOPs in a GMP Environment: 13 & 14 October 2011
OOS investigations in a GMP Environment: 18 & 19 October 2011
Stability Testing in Pharmaceutical Development: 16 & 17 May 2011, 12 & 13 December 2011
Introduction to Photostability: 14 December 2011
Pharmaceutical Packaging - an Introductory Course: 14 December 2011
HPLC Analytical Method Development and Validation: 22 & 23 November
Oral Solid Dosage Manufacturing Technology: 28 November 2011
Development and Manufacture of Effervescent Tablets: 30 November 2011

We deliver a range of expert programmes in pharmaceutical development, quality assurance and regulatory topics, plus a range of industry awareness courses.

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Keep up to date with industry requirements

REGISTRATION FORM

Quantitative Bioanalysis using LC-MS for Pharma Industry:
20 & 21 September 2011, London
1 day course £1180.00 + VAT £236.00 **Total £1416.00** ☐

Quantitative Bioanalysis using LC-MS for Pharma Industry:
20 & 21 September 2011, London
Discounted rate for booking and paying by 25 July 2011
1 day course £1062.00 + VAT £109.80 **Total £1294.40** ☐

Quantitative Bioanalysis using LC-MS *and* Introduction to LC-MS
A discounted date of 10% for booking both courses ☐

Discounted rate of 10% for booking 8 weeks in advance (25 July 2011) ☐
Discounted rate of 10% for booking more than 1 delegate ☐
Discounted rate of 10% for booking more than 1 course ☐

Maximum discount received is 15%

Title (Mr/Mrs/Ms/Dr/Prof): First Name:

Surname:

Company:

Job Title:

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Please send completed registration forms and payment to Judy Callanan at:

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