

# M-Scan



## Product Characterisation of Biopharmaceuticals: Bringing a Protein to Market

### A Two Day M-Scan Training Course MS06

M-Scan are offering training courses which cater for the rapid growth and interest in mass spectrometry for investigation of a wide range of problems in chemistry, biochemistry, pharmacology, forensic science and environmental analysis. The MS06 course draws together the technical, regulatory and commercial requirements of biopharmaceutical product characterisation.

#### Course content

The course will provide a detailed review of product characterisation, seeking to answer questions such as 'What characterisation should be performed and when?' and 'How do product characterisation and analysis impact the development programme?'

The course will include:

- Product characterisation in detail
- Mass Spectrometry and other techniques
- Protein structure and post-translational modifications
- ICH guidelines and other regulations
- Comparability testing / Biosimilars

#### Course Notes and Language

Comprehensive course notes will be provided plus other background information such as key references to enable the students to expand on matters of interest after the Course. These materials and all presentations will be in English.

#### Who should attend?

This course will prove valuable for a wide range of scientists working in the bio-pharmaceutical arena, with particular relevance for those planning development strategies and scientists wishing to better understand their objectives in the drug development process. This includes: Bio-Pharmaceutical Analytical Development Scientists, Analytical Group Leaders, Biopharmaceutical Product Development Managers, Regulatory Scientists, Suppliers of Analytical Equipment to the Biotech/Pharma Industry, Quality Control Scientists, Quality Assurance Scientists, Analytical Scientists moving into the Biopharmaceutical Industry and Formulation Scientists.

#### Format/Programme

The programme will consist of lectures, discussion sessions, and problem classes. The number of participants will be limited to ensure a good level of interaction. The programme for day 1 will be from 10.00 am to 5.00 pm. Day 2 will start at 9.00 am and finish at 3.00 pm.

#### Course Directors

Staff at M-Scan are Mass Spectrometry Consultants and Analysts with considerable experience of course design and delivery in Industry and Higher Education. Areas of special expertise in mass spectrometry

include: protein, carbohydrate and oligonucleotide sequencing; proteomics and post-translational analysis; determination of hydrocarbons and detergents in the environment; forensic science; and instrument design.

Three senior M-Scan staff have been involved in creating this course: **Prof. Howard R. Morris, Dr. Andrew Reason and Dr Fiona Greer.** Howard Morris has had an active research career of over 40 years in mass spectrometry, including aspects of instrumentation development and application to some of the most demanding structure-elucidation problems in chemistry and biology. He has published over 400 peer-reviewed papers in the research literature, in addition to book chapters and reviews. Andrew Reason has over 20 years experience in the field of mass spectrometry, initially in academic research and more recently heading-up the analysis and consulting activities of M-Scan Ltd. Fiona Greer is Director of Biochemical Services and Quality Assurance at M-Scan Ltd and in addition to more than 25 years experience of the application of Mass Spectrometry in Biochemistry, she has a background in biopharmaceutical product characterisation and regulatory affairs.

#### Registration and Payment

Fee: 1500 Euros excl. VAT including teaching materials, lunches, Course Dinner, refreshments and transportation to and from local hotels. A 20% reduction is available for students and full-time staff on the payroll of academic institutions: fee of 1200 Euros excl. VAT (requires written confirmation of current status from Head of Department). Acceptance on the course is at the sole discretion of the Course Organiser and full payment must be received before a place can be guaranteed. Those wishing to register are asked to do so 5 weeks before the course starts.

#### Acknowledgement of Registration

Confirmation of registration and a VAT receipt will be sent to all participants. Attendance instructions will be sent prior to the course. If you have not received your acknowledgement seven days before the start of the course, please contact the Course Organiser.

#### Cancellation and Substitution

Refunds will be made with a charge of 10% for cancellations made in writing at least 21 days prior to the start of the course. No refunds will be made after that date. In case of cancellation by M-Scan, a full refund will be available. If you are unable to attend, someone from the same organisation may take your place, subject to notification and the approval of the Course Organiser at least 3 days in advance.

Further information and Registration forms are available on: [www.m-scan.com](http://www.m-scan.com) or from the Course Organiser:

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