



BIOTECHNOLOGY FOR THE NON-BIOTECHNOLOGIST

22-24 April 2015



Application to
Register

22-24 April 2015
Conf. No. B4-3015

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Exhibition spaces and promotional opportunities will be available at this meeting. For further information please contact **Robert Sinclair**
robert@management-forum.co.uk

Registration
Information

Dates 22-24 April 2015
Times 22 April 2015 09.00-17.00
Drinks Reception 17.00-18.00
23 April 2015 08.30-17.00
24 April 2015 08.30-16.30

Registration & Coffee
22 April 2015 08.30

Venue and Accommodation
Radisson Blu Hotel, 223, Promenade des Anglais,
06200 Nice, France
Hotel Tel: +33 4 97 17 70 76
Hotel Fax: +33 4 97 17 70 75
Email: elisa.barbotin@radissonblu.com
www.radissonblu.com/Hotel-Nice

CONFERENCE FEES:
All fees include course documentation,
mid-session refreshments and lunch

Please tick your choice:

- ☐ €2,223 includes bed & breakfast for **TWO** nights
(April 22 & 23) at The Radisson Blu Hotel, Nice*
- ☐ €2,360 includes bed & breakfast for **THREE**
nights (April 21, 22 & 23) at The Radisson Blu
Hotel, Nice*
- ☐ * Please add €35 per night for **sea view**
- ☐ Non-Residential Fee: **€1,950**
Accommodation **NOT** included

Please book all accommodation, including
extra nights, through Management Forum

Conference No. B4-3015

For Cancellation Policy and T&Cs see website

NB: Cancellations must be received in writing by
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if you have NOT received confirmation seven
days after registering please contact
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Group discount available on request

To Register



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attended by:

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BIOTECHNOLOGY FOR THE NON-BIOTECHNOLOGIST

Ideal for Non-Scientists and Scientists needing to understand the basic
theory, principles, techniques, and potential of biotechnology

Topics to be covered at this course:

Day One

- Introduction to Biotechnology
- Introduction to Molecular Biology
- Re-Expression of Proteins
- Development of Production Organisms
- Fermentation Technology and Large Scale Production

Day Two

- Process Optimisation and Scale-Up
- Analysis of Biopharmaceuticals
- Product Recovery and Purification
- Formulation Design of Biopharmaceuticals
- Process Economics

Day Three

- Patenting Biotech Inventions
- Patent Workshop
- Regulatory Considerations
- Application of Regulatory Principles
- Advances in Regulation: Biosimilars
- Advances in Regulation: Advanced Therapies

Chairman:

Dr Adekunle Onadipe

Associate Research Fellow, Bioprocess R&D Cell Line Development,
Pfizer Inc., USA

Please see inside for full panel of speakers

22, 23, 24 April 2015
Radisson Blu Hotel, Nice



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WHY YOU SHOULD ATTEND

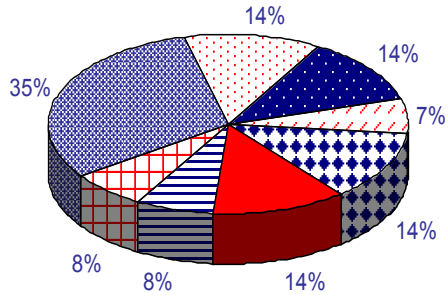
- Gain an introduction to the fundamental principles of biotechnology
- Improve your understanding of the key techniques used by biotechnologists
- Understand the importance of meeting regulatory requirements and hear about the advances being made
- Learn how to identify potential patents, and why and how they must be protected
- Share knowledge and experiences with fellow attendees from across Europe

THIS COURSE HAS BEEN DESIGNED FOR:

Personnel from:

- Quality Assurance
- Regulatory Affairs
- Legal and IP
- Business Development
- Sales and Marketing
- Engineering
- Finance
- Training
- Administration
- Management

Previous Delegates



Senior Management & Administration	Regulatory Services
QC/QA/Quality	Legal & Patent
Engineering & Production	Business Development, Finance, Sales
R&D	Project Management

CHAIRMAN

Dr Adekunle Onadipe, Associate Research Fellow, Bioprocess R&D Cell Line Development, Pfizer Inc., USA

SPEAKERS

Dr Adrian Haines, Principal Scientist, Cell Culture Development, Lonza Biologics plc, UK

Dr Mark Richardson, Pharmaceutical and Biotech Regulatory Affairs Consultant, UK

Kate Smith, Principal Scientist, Development Services, BioReliance UK

Alison Sykes, Technical Director, Analytical Services, Lonza Biologics plc, UK

Dr Philip Webber, Partner, Dehns, Patent and Trademark Attorneys, UK

Dr Robert J. Young, Principal Group Leader, New Expression Technologies Group, Lonza Biologics plc, UK

REGISTRATION

You may register by:

Visiting: www.management-forum.co.uk
Tel: + 44 (0) 1483 730071
Fax: + 44 (0) 1483 730008

Please contact josephine.leak@management-forum.co.uk with any questions.

Day One

22 April 2015

- 09.00 ▶ Introduction to Biotechnology**
- Historical perspective
 - Diversity of biotechnology products
 - Impact on society
 - Product development overview
- ▶ Introduction to Molecular Biology**
- DNA, RNA, genes, plasmids, and vectors
 - Protein synthesis – transcription and translation
- ▶ Re-Expression of Proteins**
- Recombinant DNA techniques
 - Monoclonal antibodies – from mouse to human
 - Transgenic animals and plants
- ▶ Development of Production Organisms**
- Transfection
 - Selection
 - Preservation
- ▶ Fermentation Technology and Large Scale Production**
- Types of fermenters
 - Fermentation basics
 - Modes of operation
 - Process development
- ▶ General Discussion**
- 17.00 ▶ Drinks Reception**
- 18.00 ▶ End of Day One**

Day Two

23 April 2015

- 08.30 ▶ Process Optimisation and Scale-Up**
- Scale-up strategies
 - Strain improvement
 - Media improvement
 - Process improvement
- ▶ Analysis of Biopharmaceuticals**
- Biological activity
 - Physicochemical characterisation
 - Purity, impurities and contaminants
- ▶ Product Recovery and Purification**
- Cell harvesting and removal
 - Clarification – intracellular and extracellular proteins
 - Chromatographic techniques
- ▶ Formulation Design of Biopharmaceuticals**
- Factors affecting degradation
 - Choice of excipients
 - Prolonging shelf life
- ▶ Process Economics**
- Drug development and bioprocess economics
 - Optimising bioprocess economics
 - Manufacturing make or buy
 - Future manufacturing alternatives
- ▶ General Discussion**
- 17.00 ▶ End of Day Two**

Day Three

24 April 2015

- 08.30 ▶ Patenting Biotech Inventions**
- What is a patent?
 - What are the basic criteria for patentability?
 - What can be patented?
 - Can you patent genes, proteins, hybridomas, and stem cells?
- ▶ Patent Workshop**
- How to recognise what is patentable
 - Drafting claims to biotech inventions
 - Maximising protection for an invention
 - Understanding the examination process
 - Enforcing patents
- ▶ Regulatory Considerations of Biopharmaceuticals**
- General principles
 - Product quality and control
 - Pre-clinical safety
- ▶ Application of Regulatory Principles**
- What do regulators want?
 - Specifications
 - Product characterisation
 - Assessment of process change
 - Comparability guidance and strategy
- ▶ Advances in Regulation: Biosimilars**
- Comparability, equivalence and biosimilarity
 - Biosimilars guidance
 - Guidance vs Practice – a case study
- ▶ Advances in Regulation: Advanced Therapies**
- Gene Therapy
 - Cell Therapy
 - Tissue Engineered Products
- ▶ General Discussion**
- 16.30 ▶ End of Course**

A Certificate of Attendance for Professional Development will be given to each participant who completes the course.

