

Translational Regenerative Medicine

Scaling-up from lab to clinic

30th - 31st March 2010, BSG House, London, UK

BOOK NOW!

Key Speakers

Stephen Minger, Senior Lecturer in Stem Cell Biology, **King's College London**

Jan Lundberg, Executive Vice President - Discovery Research, **AstraZeneca**

John Connolly, Head of Cell & Gene Therapies, **Department of Health**

Alan Lamont, Director of Science and Technology Alliances, **AstraZeneca**

Robert Pinnock Director, Scientific & Academic Liaison United Kingdom and Ireland, **Merck Sharp & Dohme**

Paulo Fontoura, Translational Medicine Leader, **F. Hoffmann-La Roche**

James Lawford Davies, Senior Partner, **Clifford Chance**

Alexander Denoon, Senior Associate, **Clifford Chance**

Jane Lebkowski, Chief Scientific Officer Regenerative medicine, **Geron**

Rosemary Drake, Chief Scientific Officer, **The Automation Partnership**

Lars Wahlberg, Executive Vice President & Chief Operating Officer, **NsGene**

Anthony Hollander, Chief Scientific Officer, **Azellon**

Robert Lechler, Vice Principal (Health), **King's College London**

Anthony Mathur, Senior Lecturer and Consultant Cardiologist, **Barts and the London**

Robert Gaspar, Professor of Paediatrics and Immunology, **Great Ormond Street Hospital**

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Conference Introduction

Translational Regenerative Medicine

30th - 31st March 2010, London, UK

Set to more than quadruple from \$48 to \$208bn over the next 15 years, the global regenerative medicine market is set for stellar growth as therapies begin entering the clinic

Dear Colleague,

Regenerative medicine is set to revolutionise healthcare as stem cell, tissue engineering, gene therapy and materials science come together to transform patient treatment. Bringing you the latest in translational applications from leading experts, don't miss this exceptional showcase of medical innovations in this fast-moving field.

By attending this conference you will gain the latest insights into:

- The economic future of the global regenerative medicine market and acquiring venture capital
- The use of stem cell therapies in type 1 diabetes
- Small molecule drugs to stimulate neurogenesis and neuroprotection in Parkinson's disease
- The use of direct stem cell therapies in cardiovascular diseases
- The use of direct stem cell therapies in wound healing
- The use of direct stem cell therapies in bone remodelling
- Gene therapy for retinal degeneration
- Scaling-up in the lab
- Scaling up in manufacturing
- Clinical trials for novel therapies
- How to commercialise your product
- Overcoming patent, legal and regulatory hurdles

I look forward to seeing you there

Yours sincerely



John Shah
Conference Producer

Media Partners:



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Who will be there?

Presidents, Chief Executive Officers, VPs, Chief Scientific Officers, Directors, Business Development Managers, and Principal Scientists of:

- Adult Stem Cell Research
- Embryonic Stem Cell Research
- Tissue Engineering
- Translational Medicine
- Gene Therapy
- Bioengineering and Bioprocessing
- Biotechnology
- Cell Therapy
- Biomaterials
- Neuroscience
- Diabetes
- Cardiovascular Medicine
- Pharmacology
- Pharmacogenomics
- Proteomics
- Personalised Medicine
- Business Development
- Strategic Alliances
- New Product Development
- Pharmacovigilance
- Process Development
- Manufacturing
- Clinical Trials
- Licensing and External Research

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Sponsorship and exhibition opportunities:

This event offers a unique opportunity to meet and do business with some of the key players in the pharmaceutical and biotech industries. If you have a service or product to promote, you can do so at this event by:

- Hosting a networking drinks reception
- Taking an exhibition space at the conference
- Advertising in the delegate documentation pack
- Providing branded bags, pens, gifts, etc.

If you would like more information on the range of sponsorship or exhibition possibilities for visiongain's Translational Regenerative Medicine Conference, please contact us:

Sandra Clout PhD, +44 (0)20 7549 9969
sandra.clout@visiongainglobal.com

09:00 Registration and refreshments

09:30 Opening address from the co-chairs

Stephen Minger

Senior Lecturer in Stem Cell Biology

King's College London

Ruth McKernan

Chief Scientific Officer

Pfizer Regenerative Medicine*

09:40 Prospects for the global regenerative medicine market

- Dynamics of the regenerative medicine market
- Why academic collaborations are increasingly important
- What does industry want?

Alain Vertes

Global Alliance Director

Roche*

10:20 Mapping regulations for regenerative medicine in the UK

- Regulations for regenerative medicine
- The regulatory landscape in the UK
- How to make a regulatory route map

John Connolly

Head of Cell & Gene Therapies

Department of Health

11:00 Morning refreshments

11:20 Bioprocessing of regenerative medicines

- Routes to faster production methods
- Standardisation
- Ensuring cGMP

12:00 Scaling-up in the lab with hESCs

- Purifying and maintaining stem cells under cGMP conditions
- Evidence for reliable production and quality control of product manufacturing
- Rigorous safety testing in preclinical models

Jane Lebkowski

Chief Scientific Officer Regenerative Medicine

Geron

12:40 Networking lunch

14:00 Automation- the route to successful scale-up and manufacture for cell-based therapies?

- Different manufacturing approaches using standard cell culture vessels
- Developing cost-effective methods for scaling up in manufacture
- Automating production of cells and tissues for clinical trials

Rosemary Drake

Chief Scientific Officer

The Automation Partnership

14:40 The immune response to stem cell-derived tissues

- Direct and indirect pathways of MHC allorecognition
- Distinction between antigenicity and immunogenicity
- Possible approaches to promote immune tolerance to allogeneic tissues

Robert Lechler

Vice Principal

King's College London

15:20 Afternoon refreshments

15:40 Regenerative medicine clinical trials – challenges associated with translation into man

- Preliminary box-ticking
- Clinical trial registration
- When things go wrong: ensuring the cash keeps flowing

Anthony Mathur

Consultant Cardiologist

Barts and the London Hospital

16:20 Successful bone marrow gene therapy for SCID

Robert Gaspar

Professor of Paediatrics and Immunology

Great Ormond Street Hospital

17:00 Round table discussions. Choose from:

Is there such a thing as personalised medicine in cell therapy?

Stephen Minger, Senior Lecturer in Stem Cell Biology,

King's College London

Rosemary Drake, Chief Scientific Officer,

The Automation Partnership

Julie Daniels, Director, Cells for Sight Tissue Bank,

Moorfields Eye Hospital

David Newble, Chief Executive Officer,

The Automation Partnership*

OR

Engaging with the global regenerative medicine market

Topics will include: obtaining venture capital, engaging with partners in industry & academia, and investment opportunities in the post credit crunch era. Commercialising your product, and keeping abreast of regulatory requirements will also be discussed. If you would like to submit a question to the panel, please email: john.shah@visiongainglobal.com.

Brian Meltzer, Senior Director, Venture Program Management,

Johnson & Johnson Corporate Development*

Robert Pinnock, Director, Scientific & Academic Liaison,

Merck Sharp & Dohme

Alan Lamont, Director of Science and Technology Alliances,

AstraZeneca

Jan Lundberg Executive Vice President

Discovery Research AstraZeneca

Iphigenie Charatsi, Business Manager, **UK Stem Cell Bank***

ROUND - TABLE DISCUSSIONS

17:40 Closing remarks from the co-chairs

17:50 Networking drinks

Take your discussions further and build new relationships in a relaxed and informal setting

09:00 Registration and refreshments

09:30 Opening address from the Chair

Paulo Fontoura

Translational Medicine Leader, Neuroscience

F. Hoffmann-La Roche

09:40 Negotiating IP and regulatory hurdles

- Legal issues for clinical development
- Applying for patent protection
- UK, US and European regulatory perspectives

James Lawford Davies

Senior Partner

Clifford Chance

Alexander Denoon

Senior Associate

Clifford Chance

10:20 Heart muscle regenerative therapy

- Manufacturing technology
- Preclinical studies with myocytes
- Clinical development

Michael Siani-Rose

President & Founder

Theregen*

11:00 Morning refreshments

11:20 Vascular regenerative medicine

- Seeding patient stem cells
- Constructing blood vessels
- Results from clinical trials

Keith Murphy

Chief Executive Officer

Organovo*

12:00 Claudia's trachea: lessons learned for future tissue engineering strategies

Anthony Hollander

ARC Professor of Rheumatology & Tissue Engineering

University of Bristol, Chief Scientific Officer, **Azellon**

12:40 Networking lunch

14:00 Case study: creating skin for wound healing

- Apligraf: a living, cell-based therapy
- Kick-starting the natural healing process
- Applications to diabetic and venous leg ulcers

Geoff MacKay

Chief Executive Officer

Organogenesis*

14:40 Reversing blindness with cellular and gene therapies

- Overview of Leber's congenital amaurosis and wet AMD
- Developing viral vectors and cell lines
- Follow-up studies

Julie Daniels

Director, Cells for Sight Tissue Bank

Moorfields Eye Hospital

Robin Ali

Professor of Human Molecular Genetics, **Institute of Ophthalmology, University College London***

15:20 Encapsulated cell therapy for neurological disease

Lars Wahlberg

Executive Vice President & Chief Operating Officer

NsGene

16:00 Afternoon refreshments

16:20 Exploring neurogenesis mechanisms for novel CNS therapeutics

- Opportunities for neurogenesis therapy in CNS diseases
- Regulation of proliferation & differentiation of neural stem cells
- Autocrine versus paracrine regulation of neural stem cells

Aaron Chuang

Scientific Manager, Stem Cell Research

GlaxoSmithKline*

17:00 Neurogenesis and neuroprotection in Parkinson's disease and amyotrophic lateral sclerosis

- The impact of altered stem/progenitor cell activity in neurodegenerative disease
- sNN0031/PDGFBB - in the clinic to promote neurogenesis and dopamine system restoration
- sNN0029/VEGF165 - towards the clinic to protect motor neurons
- Direct application of protein drugs to the CNS- pros and cons

17:40 Chair's closing remarks

17:50 End of conference