

& Techniques

tools:

non-viral

TALENs

knockout, knockin

delivery & development In vivo genome editing

3rd Annual Genome Editing Congress

9 - 10 November 2017, London, UK

Benefits to Attending

- ✓ Hear from and meet with the key innovators in genome editing. Attendees include: VP and Senior Principal Scientist, AstraZeneca; Professor, University of Copenhagen; Professor of Genomics, Dresden University of Technology
 - ✓ Discover collaborative solutions to genome editing technologies and techniques. This unique event brings together key opinion leaders to discuss advancements in CRISPR/Cas9 systems, viral and non-viral delivery systems, utilising gene editing in delivery and development
- ✓ Discuss the latest innovations in the therapeutic applications of genome editing. Case studies include haematology, oncology, inherited disease and HIV
 - ✓ Unparalleled networking opportunities. The two-day congress offers dedicated networking breaks creating an interactive platform for scientific discussions. The exhibition hall and poster presentation spaces offer a relaxed and professional environment for discussion
 - ✓ A high-quality programme devised with the help of our esteemed advisory board. Presentations will also cover regulatory & ethical issues and challenges in genome editing and updates in genome engineering
- Co-located with the 9th Annual Next Generation Sequencing Congress & 5th
 Annual Single Cell Analysis Congress

Day 2 – Therapeutic Applications of Genome Editing

Day 1 - Genome Editing Technologies

Advancements in genome editing

Gene delivery systems: viral and

Delivery of different modifications:

Gene activation and inhibition using dead Cas9 and epigenome editing

Updates in precise genome editing

Utilising genome editing in drug

Novel technologies; RNAis, ZFNs

CRISPR-Cas system

- Case studies from the areas of:
 - Oncology
 - Gene therapy
 - Inherited diseases including: cystic fibrosis; skin disease
 - Hematologic diseases
 - o HIV
- Novel methods of genome editing & engineering
- Therapeutic genome editing: future challenges
- Genome editing: ethical and regulatory issues
- In vivo targeting vs. ex vivo targeting

2017 Webinars:

- 'Genome editing a tool to transform the world: Its promise and some potential perils'. Hosted by John Parrington, University of Oxford | Friday 8th September 2017 – Download for <u>free</u>
- 'A background to genome editing from a patenting perspective'. Hosted by Philip Webber, Dehns Patent and Trade Mark Attorneys | Friday 8th September 2017 – Download for free
- 'CRISPR technology for genome editing across our drug discovery platform'.
 Hosted by Rob Howse, AstraZeneca | Tuesday 12th September 2017 –
 Download for free

2017 Speakers Include:



Zoltan Ivics Paul Ehrlich Institute



Lydia Teboul MRC Harwell



Steven Hyde John Radcliffe Hospital

Meet Senior Decision Makers

400 delegates from leading research & academic institutions, clinical research institutions, food & nutrition companies as well as major pharmaceutical and biotech companies will attend the event. Delegate job titles include:

Genome Editing Genome Engineering Functional Genomics Genetics Gene Regulation Gene Therapies Genome Biology Cell Biology Bioprocess Engineering Biology Discovery Computational Biology Disease Modelling

Discover New Solutions

Formal and informal meeting opportunities offer delegates the chance to discuss key solutions with leading service providers. Services to be discussed include:

CRISPR TALEN ZFN

Gene Knockin Gene Knockout Detection & Analysis Tools Gene Libraries Gene Targeting Vector Production DNA Synthesis Bioinformatics Tools Synthetic Manufacture

2017 Confirmed Speakers Include:

- Rob Howes, Director, Reagents and Assay Development, Discovery Sciences, AstraZeneca
- John Feder, Associate Director, Genome Biology & Emerging Technologies, Bristol-Myers Squibb
- Laurent Poirot, Head of Early Discovery, Cellectis
- Emanuela Cuomo, Principal Scientist, AstraZeneca
- Andrea Crisanti, Professor of Molecular Parasitology, Imperial College London
- Tarik Möröy, Professor, Department of Medicine, University of Montreal
- Francis Stewart, Professor, Dresden University of Technology
- Richard Ashcroft, Professor, Queen Mary University of London
- Huw Jones, Professor, Aberystwyth University
- · Ruth Chadwick, Professor, University of Manchester
- André Brändli, Professor, Ludwig-Maximilians-University Munich
- Zsuzsanna Izsvák, Professor, Max Delbrück Center for Molecular Medicine
- Pradeep Mammen, Director: Translational Research for the Advanced Heart Failure and Transplant Cardiology Program, UT Southwestern Medical Center
- Niall Barron, Director, National Institute for Cellular Biotechnology, Dublin City University
- Philip Webber, Partner, Dehns Patent and Trade Mark Attorneys
- Julia Reichelt, Head of Research, EB House
- Zoltan Ivics, Head of Division, Paul Ehrlich Institute
- Roderick Beijersbergen, Head of High Content Screening Facility, Netherlands Cancer Institute
- Lydia Teboul, Head of Molecular and Cellular Biology, MRC Harwell
- John Parrington, Associate Professor, University of Oxford
- Mark Osborn, Associate Professor, University of Minnesota
- Steven Hyde, Associate Professor of Molecular Therapy, Gene Medicine Research Group, Nuffield Division of Clinical Laboratory Sciences. John Radcliffe Hospital
- Claudio Mussolino, Group Leader Junior Group Genome Engineering, Medical Center University of Freiburg
- Annett Muller, Group Leader, Division of Transfusion Medicine, Department of Haematology, University of Cambridge
- Robin Ketteler, MRC LMCB Group Leader, University College London
- Linda Popplewell, Research Officer, School of Biological Sciences, Royal Holloway University of London
- Patrick Harrison, Senior Lecturer, University College Cork
- Emmanouil Metzakopian, Career Development Fellow, Wellcome Trust Sanger Institute

2017 Next Generation Sequencing, Single Cell Analysis and Genome Editing UK Sponsors Include:









2016 Genome Editing UK Sponsor and Delegate Testimonials Include:

"I liked that the organisation was very straight forward with good support and service"

Regional Marketing Manager Extraction Technologies, QIAGEN

"It was a very useful event, our company was able to gain genuine interest from delegates".

European Market Development Manager, BD Genomics

"I liked that there were good speakers and also nice size conference rooms for question and answer discussions"

Professor in Molecular Genetics, UCL Great Ormond Street Institute of Child Health

"The congress had an excellent selection of presentations, both academic and commercial"

Head of Department, Vavilov Institute of General Genetics



3rd Annual Genome Editing Congress Day One – 9th November 2017

07.00 00.00	Paristration
07.30 - 08.20	Registration
08.20 - 08.25	Oxford Global's Welcome Address
08.25 - 08.30	Chairperson's Opening Address
08.30 - 09.00	Co-located Keynote Address:
	Development And Optimisation Of CRISPR Genome Editing For Drug Discovery And Application
	John Fodor, Accopieto Director, Conomo Biology, 9 Emerging Tooknologico, Brietol Myero Sayibh
	John Feder, Associate Director, Genome Biology & Emerging Technologies, Bristol-Myers Squibb
	Genome Editing Technologies & Techniques
09.00 - 09.30	Stream Keynote Address:
	Update On The CRISPR Patent Wars
	There are battles in the US between Zhang and Doudna about the ownership of the basic CRISPR technology
	In Europe, 7 of Zhang's granted patents are being challenged
	This presentation will discuss the background to these disputes and the current status of these patent wars
	Dhilin Wahhar Partner Dahua Patent and Trada Mark Attannara
	Philip Webber, Partner, Dehns Patent and Trade Mark Attorneys
09.30 - 10.00	Solution Provider Presentation
	For sponsorship opportunities please contact
	sponsorship@oxfordglobal.co.uk
10.00 - 11.20	Morning Coffee & Refreshments, Poster Presentation Sessions, One to One Meetings x3
11.20 – 11.50	The Transgenic Effect On CRISPR Innovation
	Rob Howes, Director, Reagents and Assay Development, Discovery Sciences, AstraZeneca
11.50 – 12.20	Large Scale Combinatorial CRISPR Screens For Identification Of Genotype Specific Drug Targets
11.50 - 12.20	Large scale functional genomic screens Large scale functional genomic screens
	Development clinical relevant models
	Synthetic lethality
	Novel drug combinations based on synthetic lethality
	,
	Roderick Beijersbergen, Head of High Content Screening Facility, Netherlands Cancer Institute
12.20 - 12.50	Solution Provider Presentation
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3rd Annual Genome Editing Congress Day One – 9th November 2017

47.00 47.50	O II II O O O O O
17.20 – 17.50	Scaling Up - Genome Wide CRSIPR Cas9 Screening
	Introduction to CRISPR
	CRISPR technology coupled with transposons
	Gain and loss of function CRISPR screens in various models
	CRISPR arrayed libraries generated at the Sanger institute
	Summary and finishing remarks
	Emmanouil Metzakopian, Career Development Fellow, Wellcome Trust Sanger Institute
17.50 – 18.20	Driving Genome Editing For The Development Of Malaria Vector Control
	Andrea Crisanti, Professor of Molecular Parasitology, Imperial College London
18.20 - 18.50	Genome Editing – A New Tool For Studying The Molecular Mechanisms Underlying Reproduction
	CRISPR/Cas9 genome editing offers a rapid and economic way to generate knockout and knockin mice
	We have used this approach to study the role of sperm protein PLCzeta during fertilization in mammals
	Our studies of PLCzeta knockout and knockin mice show that PLCzeta is the physiological trigger of mammalian
	embryogenesis
	John Parrington, Professor, University of Oxford
18.50 - 19.20	Applying The CRISPR/Cas9 System To High Throughput Generation Of Mouse Mutants
10.00	Utlize the CRISPR/Cas9 system in vivo at scale
	Broaden the range of possible alterations
	Create and analyse a library of mouse mutants to understand gene function
	Groute and analyse a library of mouse matarite to understand gene failed.
	Lydia Teboul, Head of Molecular and Cellular Biology, MRC Harwell
19.20 - 19.50	Application Of Precise Genome Editing In Drug Development
	Application of CRISPR to the generation of cellular models for oncology
	Application of CRISPR to the study of drug resistance
	Emanuela Cuomo, Principal Scientist, AstraZeneca
19.50 - 20.20	Uses Of CRISPR/Cas9 Genome Editing To Study Gene Function In Autophagy
	Present our experience in using CRISPR/Cas9 genome editing to generate knockout cell lines for genes in autophagy
	and signaling;
	Data on the use of CRISPR/Cas9 for endogenous gene tagging;
	Preliminary data using CRISPR/Cas9 in systematic screening approaches;
	Robin Ketteler, MRC LMCB Group Leader, University College London
20.20	Networking Drinks and End of Day One
	• • • • • • • • • • • • • • • • • • • •

3rd Annual Genome Editing Congress Day Two – 10th November 2017

08.30 - 09.00	Keynote Address:
	Ethical Issues Around Genome Editing
	Richard Ashcroft, Professor, Queen Mary University of London
	Therapeutic Applications Of Genome Editing
09.00 - 09.30	Viral And Non-viral Gene Therapy For Cystic Fibrosis
	Cystic Fibrosis is the most common life threatening genetic disease in Europe and North America
	 The UK CF Gene Therapy Consortium has developed viral and non-viral gene transfer agents that efficiently deliver transgenes to the lungs
	 In pre-clinical and Phase I/IIa clinical studies in CF subjects, we have demonstrated safe, long lasting CFTR expression
	In Phase IIb clinical trials we have demonstrated a halt in the progression of CF lung disease after gene delivery
	Steven Hyde, Associate Professor of Molecular Therapy, Gene Medicine Research Group, Nuffield Division of Clinical Laboratory Sciences. John Radcliffe Hospital
09.30 - 10.00	Solution Provider Presentation
	For sponsorship opportunities please contact sponsorship@oxfordglobal.co.uk
10.00 - 11.00	Morning Coffee & Refreshments, Poster Presentation Sessions, One to One Meetings x3

3rd Annual Genome Editing Congress Day Two – 10th November 2017

There are all least 272 different CP-causing variants	11.00 – 11.30	Superexon Correction Of Multiple CF-Causing Variants By CRISPR-mediated Homology-independent Targeted Integration (HITI)
11.30 - 12.00 Solution Provider Presentation		Superexon correction by HDR has established proof-of-principle but efficiency of repair is very low
For sponsorship opportunities please contact sponsorship@oxfordglobal.co.uk		Patrick Harrison, Senior Lecturer, University College Cork
12.00 - 12.30 Ex vivo Gene Therapies For The Blistering Skin Disorder Epidermolysis Bullosa Using TALEN And CRISPR Technology Julia Reichelt, Head of Research, EB House 12.30 - 13.30 Lunch Engineering The Genome With The Sleeping Beauty Transposon System Zoltan Ivics, Head of Division, Paul Ehrlich Institute 14.00 - 14.30 Gene Editing And Duchenne Muscular Dystrophy Linda Popplewell, Research Officer, School of Biological Sciences, Royal Holloway University of London 14.30 - 15.00 Determined The Role Of Gfi1 And Gfi1b In Blood Cancer And Inherited Blood Disorders Tarik Möröy, Professor, Department of Medicine, University of Montreal 15.00 - 15.30 Afternoon Refreshments, Poster Presentation Sessions The Regulatory Oversight will differ between contained uses, human therapeutics (both research and clinical) and agriculture Appropriate regulatory oversight will differ between contained uses, human therapeutics (both research and clinical) and agriculture Regulatory frameworks are evolving at different rates and in different directions around the world and the current lack of clarity is already stitling innovation in some sectors The cost and timescales of regulation will determine whether (and in what countries) this technology is adopted and commercialized Huw Jones, Professor, Aberystwyth University	11.30 – 12.00	Solution Provider Presentation
CRISPR Technology Julia Reichelt, Head of Research, EB House 12.30 – 13.30 Lunch 13.30 – 14.00 Engineering The Genome With The Sleeping Beauty Transposon System Zoltan Ivics, Head of Division, Paul Ehrlich Institute 14.00 – 14.30 Gene Editing And Duchenne Muscular Dystrophy Linda Popplewell, Research Officer, School of Biological Sciences, Royal Holloway University of London 14.30 – 15.00 Determined The Role Of Gfi1 And Gfi1b In Blood Cancer And Inherited Blood Disorders Tarik Möröy, Professor, Department of Medicine, University of Montreal 15.00 – 15.30 Afternoon Refreshments, Poster Presentation Sessions The Regulation Of Genome Edifting For Contained Use, Human Therapeutics And Agriculture Appropriate regulation yearish will differ between contained uses, human therapeutics (both research and clinical) and agriculture Appropriate regulation yearish will differ between contained uses, human therapeutics (both research and clinical) and agriculture Appropriate regulation yearish will differ between contained uses, human therapeutics both research and clinical) and agriculture Appropriate regulation yearish will differ between contained uses, human therapeutics (both research and clinical) and agriculture Appropriate regulation yearish will different rates and in different directions around the world and the current lack of clarify is already stifling involvation is an own seasons The cost and timescales of regulation will determine whether (and in what countries) this technology is adopted and commercialized Huw Jones, Professor, Aberystwyth University 16.00 – 16.30 CRISPR Cas9 In Duchenne Muscular Dystrophy Pradeep Mammen, Director: Translational Research for the Advanced Heart Failure and Transplant Cardiology Program, UT Southwestern Medical Center 17.00 – 17.30 Epigenome Editing Tools To Tackle HIV Infection Claudio Mussolino, Group Leader - Junior Group Genome Engineering, Medical Center - University of Freiburg 17.30 – 18.30 Genomic Engineering By Transposable Elements In Vertebrates Zsuzsanna Iz		sponsorship@oxfordglobal.co.uk
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