

British Society for Gene and Cell Therapy (BSGCT) Conference Royal Holloway, University of London, 17-19 April, 2013

Programme

Day 1: Wednesday April 17th 2013				
09:30 - 15:00	Proudly hosted with Windsor Building Auditorium "Gene Therapy and Stem Cells: 21st Century Medicine"	GENZYME A SANOFI COMPANY		
09:30 - 16:00	BSGCT GENE THERAPY FOR INHERITED METABOLIC DISEASE MEETING First Floor Windsor Building			
15:00	Conference registration opens - Windsor Building			
16:00 - 18:00	BSGCT EDUCATIONAL SYMPOSIUM Windsor Building Auditorium Chairs: Andrew Baker, University of Glasgow and Chris Denning, University of Nottingham			
	Chris Denning, University of Nottingham Using pluripotent stem cells to understand heart dis	ED 1.1 sease		
	Georgina Ellison, King's College, London, Tissue-specific stem-progenitor cells from the adult heart and skeletal muscle	ED 1.2 mammalian		
	Kyriacos Mitrophanous, Oxford BioMedica Overview of current LV gene therapy clinical trials at challenges ahead	ED 1.3		
	Len Seymour, University of Oxford Current and future strategies in cancer gene therapy	ED 1.4		
18:00	Welcome reception and buffet Picture Gallery, Founders Building			

(BSGCT President-Elect) Windsor Building Auditorium 19:10 SPECIAL GUEST LECTURE: Juan Carlos Izpisua Belmonte, Salk Institute for Biological Studies, California 1.1 Engineering human somatic and stem cells for cell therapy 19:50 - FAIRBAIRN AWARD PRESENTATIONS 21:00 Proudly sponsored by				
Institute for Biological Studies, California Engineering human somatic and stem cells for cell therapy 19:50 - FAIRBAIRN AWARD PRESENTATIONS Proudly sponsored by				
21:00 Proudly sponsored by				
(legius, Anglustus Dalson Hairrensitus et Classes				
Chairs: Andrew Baker, University of Glasgow and Adrian Thrasher, Institute of Child Health, University College London Paterson Institute for Cancer Research				
19:50 Juliette Delhove, Queen Mary University of London Somatotransgenic bioimaging: a novel biosensing platform for in vivo bioimaging				
20:05 Lynsey Howard, University of Bristol FB 2 Proangiogenic effect of localised Ad.decoy-mediated miR-15/16 inhibition				
20:25 Ben Mead, University of Birmingham The neuroprotective and pro-regenerative effects of intravitreal dental pulp stem cell/mesenchymal stem cell transplantation on retinal ganglion cells after optic nerve injury				
20:40 Ms Ngoc Lu-Nguyen, Royal Holloway-University of London FB 4 Efficient striatal expression of hGDNF from integration-deficient lentiviral vectors ameliorates 6-OHDA-lesioned rats				
21:00 "Stumble Inn" and "Medicine" bars open Cheese and biscuits available for delegates from 21:30				
Day 2: Thursday April 18th 2013				
07:15 - MEET THE EXPERT OVER BREAKFAST Proudly sponsored by The Hub – pre-registration required Cell Medica				
08:00 Conference desk opens - Windsor Building				
 08:30 - 10:15 SYMPOSIUM 1: EMERGING TECHNOLOGIES & VECTOROLOGY 10:15 Chairs: Stuart Nicklin, University of Glasgow and Paul Kingston, University of Manchester 				
Daniela Moralli, University of Oxford S 1.1 Human artificial chromosomes maintained in human embryonic stem and neuronal cells				

09:00	Fulvio Mavilio, Genethon, France Mechanisms and patterns of retroviral insertion	S 1.2
09:30	Andrew Baker, University of Glasgow Manipulation of the vasculature using gene and miRNA approaches	
10:00	Proffered paper Richard Harbottle, Imperial College London Permanent genetic modification of dividing cells using episomally maintained S/MAR DNA vectors - the genetic correction of a cancer phenotype in renal tumour cells	S 1.4
10:15 - 10:45	MORNING REFRESHMENTS, POSTERS AND EXHIBITION Windsor Building	
10:45- 12:30	SYMPOSIUM 2: STEM CELL ENGINEERING Chairs: Ludovic Vallier, University of Cambridge and Steven Howe, Institute of Child Health, University College London	
10:45	Henrik Semb, Danish Stem Cell Center, Copenhagen University, Denmark Human stem cell technologies	S 2.1
11:15	Bill Skarnes, Wellcome Trust Sanger Centre, Cambridge A library of homozygous mutant stem cells for cellular phenotyping	S 2.2
11:45	Ludovic Vallier, University of Cambridge Liver differentiation and genetic modification of human pluripotent stem cells	S 2.3
12:15	Proffered paper Rafael Yáñez, Royal Holloway-University of London Rescue of mouse Prkdc scid deficiency by transplantation of gene-repaired haematopoietic stem cells	
12:30- 13:30	LUNCH, POSTERS AND EXHIBITION Windsor Building	
12:30- 13:30	BSGCT ANNUAL GENERAL MEETING All BSGCT members welcome Windsor Building Auditorium	
13:30- 15:15	SYMPOSIUM 3: METABOLIC & GENETIC DISEASE SESSION 1 Chairs: Giulio Cossu, University College London and Laura Bailey, The University of Edinburgh	
13:30	Dimitri Kullman, University College London Gene therapy in experimental focal neocortical epilepsy	S 3.1
14:00	Timo Otonkoski, University of Helsinki, Finland Modelling of monogenic diabetes in hiPSC	S 3.2

14:30	Giulio Cossu, University College London A Phase I/II cell therapy trial for Duchenne muscular dystrophy		
15:00	Proffered paper Antonio Trabalza, Imperial College London Dose dependent neuroprotection of VEGF ₁₆₅ in Huntington's disease striatums		
15:15- 15:45	AFTERNOON REFRESHMENTS, POSTERS AND EXHIBITION Windsor Building		
15:45- 17:30	SYMPOSIUM 4: IN VITRO STEM CELL APPLICATIONS Chairs: Chris Denning, University of Nottingham and Nicole Kane, Institute of Child Health, University College London		
15:45	Christine Mummery, Leiden University Medical Centre, The Netherlands Cardiomyocytes from human pluripotent stem cells in safety pharmacology, drug discovery and disease		
16:15	Marc Peschanski, iSTEM, France Harnessing pluripotent stem cells derivatives to decipher mechanisms and identify treatments for monogenic diseases		
16:45	SPECIAL GUEST: 5 4.3 Konrad Hochedlinger, Harvard Stem Cell Institute Understanding cellular reprogramming and pluripotency		
17:15	Proffered paper Gábor Földes Imperial College London Key differences in hypertrophic signalling in hESC- and hiPSC-derived cardiomyocytes		
17:30- 19:00	DRINKS, POSTER JUDGING AND SPONSOR PRESENTATIONS Windsor Building - with music from Vintage Cocktail		
	1: BIA Separations		
	2: Cellular Dynamics International CELLular Dynamics international		
	3. iThera Medical Listenling to Molecules		
	4: Rett Syndrome Research Trust UK rett syndrome research trust UK		
19:00	CONFERENCE DINNER Proudly sponsored by After dinner speaker: Professor Patrick Maxwell, University of Cambridge Pre-registration required Founders Dining Hall, Founders Building Fairbairn and Poster Presentation results will be announced.		
	"Stumble Inn" and "Medicine" bars open after the conference dinner		

Day 3: Friday April 19th 2013

07:30 - 08:30	BSGCT BOARD MEETING This meeting is open to BSGCT Executive members. Breakfast will be provided.		
08:00	Conference desk opens - Windsor Building		
08:30 - 10:15	SYMPOSIUM 5: CELLULAR GENE THERAPY FOR CANCER Chairs: Hans Stauss, University College London and Roua Alsubki, Institute of Child Health, University College London		
08:30	Ton Schumacher, The Netherlands Cancer Institute, Amsterdam Towards personalized gene and T cell therapies in melanoma	S 5.1	
09:00	Hans Stauss, University College London Improving T cell therapy of cancer	S 5.2	
09:30	Chiara Bonini, Hospital San Raffaelle, Milan TCR gene editing to treat haematological malignancies	S 5.3	
10:00	Proffered paper Hong Zhan, Institute of Child Health, University College London First-in-man use of T cells engineered to express a HSVTK-CD34 sort-suicide gene	S 5.4	
10:15- 10:45	MORNING REFRESHMENTS, POSTERS AND EXHIBITION Windsor Building		
10:45 10:45-	Windsor Building SYMPOSIUM 6: METABOLIC & GENETIC DISEASE SESSION 2 Chairs: Keith Foster, University of Reading and Marlene Carmo,	S 6.1	
10:45 10:45- 12:30	SYMPOSIUM 6: METABOLIC & GENETIC DISEASE SESSION 2 Chairs: Keith Foster, University of Reading and Marlene Carmo, Institute of Child Health, University College London Mimoun Azzouz, University of Sheffield SMN replacement gene therapy for spinal muscular atrophy:	S 6.1	
10:45 10:45- 12:30 10:45	SYMPOSIUM 6: METABOLIC & GENETIC DISEASE SESSION 2 Chairs: Keith Foster, University of Reading and Marlene Carmo, Institute of Child Health, University College London Mimoun Azzouz, University of Sheffield SMN replacement gene therapy for spinal muscular atrophy: clinical development Keith Foster, University of Reading Engineering adeno-associated virus vectors to deliver full length		

12:40- 13:30	REGULATORY SESSION Pre-registration required. Lunch will be provided Windsor Building Ground Floor Seminar Room 0-05		
13:30 - 15:15	SYMPOSIUM 7: STEM CELL THERAPIES Chairs: Georgina Ellison, King's College, London and Waseem Qasim, University College London		
13:30	Robin Ali, University College London Stem cell therapy for retinal degeneration	S 7.1	
14:00	Phil Newsome, University of Birmingham, Stem cell therapies for liver disease	S 7.2	
14:30	Georgina Ellison, King's College, London Stem cell therapies: heart	S 7.3	
15:00	Proffered paper Dafni Moschidou, Imperial College London Potential of human fetal chorionic stem cell therapy for Alport Syndrome	S 7.4	
15:15- 15:45	AFTERNOON REFRESHMENTS, POSTERS AND EXHIBITION Windsor Building		
15:45- 17:30	SYMPOSIUM 8: GENE THERAPY FOR CANCER Chairs: Mary Collins, University College London and Cian M.McCrudden, Queen's University, Belfast		
15:45	Alan Melcher, University of Leeds Oncolytic viruses for cancer - from laboratory to clinic and back again	S 8.1	
16:15	lain McNeish, Institute of Cancer Sciences University of Glasgow Oncolytic adenoviruses for ovarian cancer	S 8.2	
16:45	Mary Collins, University College London Regulating dendritic cell signalling to improve vaccination	S 8.3 cination	
17:15	Proffered paper Steven Mo, University of Oxford Coating of adenovirus type 5 with cleavable PEGylated gold nanoparticles for enhanced protection and circulation	S 8.4	
17:30- 17:40	CLOSE OF CONFERENCE - BSGCT PRESIDENT Fairbairn and Poster Presentation certificates and prizes will be presented.		