



Programme Overview

Wednesda	y April 19th 2017		
	Concert Hall Richard Burton Theatre		
09:30-16:00	Acellular Internal Hub Meeting		
14:00-16:00	PSCP Internal Hub Meeting		
15:00-15:45	BSGCT Board Meeting		
15:00-20:45	BSGCT Registration Desk Opens - Foyer		
16:00-18:00	BSGCT Welcome and Symposium 1 (Clinical Breakthroughs) Chair: Len Seymour Kindly sponsored by	MACS Miltenyi Biotec	
16:00-16:30	INVO1 Gene edited T cell therapies Professor Waseem Qasim, Institute of Child Health, UCL		
16:30-17:00	INVO2 Haemophilia gene therapy: where do we stand? Professor Amit Nathwani, University College London		
17:00-17:30	INVO3 Results and challenges of ex vivo gene therapy clinical trials Dr Marina Cavazzana, Paris Descartes University		
17:30-17:45	SEL01 Quantification of vector shedding after transduction of murine lungs with F/HN-pseudotyped lentivirus Professor Uta Griesenbach, Imperial College London		
17:45-18:00	SELO2 Haematopoietic stem cell gene therapy corrects the brain in mucopolysaccharidosis type IIIB Dr Rebecca Holley, University of Manchester		
18:00-18:30	Refreshments - Exhibition, poster and catering areas		
18:30-20:15	BSGCT Special Lecture & Fairbairn Award Presentations Chairs: Uta Griesenbach and Aarash Saleh		
18:30-19:15	INVO4 Translation of gene therapeutics in neurological and neuromuscular disease Dr Brian Kaspar, Nationwide Children's Hospital/the Ohio State University		
19:15-19:30	FB01 CRISPR/Cas9-mediated TCR replacement greatly improves functional activity of TCR-transgenic T-cells: implications for cancer immunotherapy Mr Mateusz Legut, Cardiff University		
19:30-19:45	FB02 Development of T cell mediated gene therapy for correction of humoral and cytotoxic defects in X-linked lymphoproliferative disease (XLP) Miss Neelam Panchal, PhD Student UCL-GOSICH		
19:45-20:00	FB03 A tropism-modified, ανβ6 integrin-selective adenoviral vector for epithelial ovarian cancer therapies Miss Hanni Uusi-Kerttula, Phd Student Cardiff University		
20:00-20:15	FB04 The lung as a factory to produce secreted intrapulmonary and circulatory proteins Mr Michael Paul-Smith, Imperial College		
19:30-22:00	UK RMP - Formal Inter-Hub Dinner - Cardiff Castle Separate registration required for UKRMP attendees only		
20:15-22:00	BSGCT Welcome Networking Reception Exhibition, poster and catering areas		

	Concert Hall Richard Burton Theatre	
08:30-10:30	Joint UK RMP & BSGCT Plenary Session (BSGCT Symposium 2) Chairs: Peter Andrews and Andy Baker UK Regenerative Medicine Platform British Heart Foundation	
08:30-08:40	INV05 Implementing a strategic approach for UK regenerative medicine Dr Rob Buckle, Medical Research Council (MRC)	
08:40-08:50	INV06 BHF Regenerative Medicine Centres Professor Sian Harding, Imperial College London	
08:50-09:00	INV07 The British Society for Gene and Cell Therapy Professor Andy Baker, University of Edinburgh	
09:00-09:20	INVO8 The MATCH Study – Autologous Macrophages for the Treatment of Cirrhosis Professor John Campbell, SNBTS Advanced Therapeutics	
09:20-09:40	INV09 Liver directed gene therapy Professor Paul Gissen, University College London	
09:40-10:00	INV10 Selective vs widespread CNS gene transfer with viral vectors Professor Nicholas D. Mazarakis, Lucas-lee Chair In Molecular Biomedicine Head Gene Therapy Imperial College London	
10:00-10:20	INV11 Cell therapy for Parkinson's disease Dr Gesine Paul, Lund University And Skane University Hospital	
10:30-11:00	Morning refreshments, posters and exhibition - Foyer, Café and Gallery	
11:00-12:30	Joint UK RMP & BSGCT Plenary Session (BSGCT Symposium 3) Chairs: Sian Harding and Fiona Watt UK Regenerative Medicine Platform British Heart Foundation	
11:00-11:20	INV12 Cell therapy for cartilage and bone repair: A small UK manufacturer's update Professor Sally Roberts, Prof of Orthopaedic Research NHS	
11:20-11:40	INV13 Advances in combined gene - and tissue engineering-based approaches for cartilage regenerative medicine Professor Magali Cucchiarini, Saarland University Medical Center	
11:40-12:00	INV14 Developmental programming of the cardiac lymphatics towards improved heart repair Professor Paul Riley, University of Oxford	
12:00-12:05	SELO3 In vivo reprogramming to a transient pluripotent-like state enhances regeneration of injured skeletal muscle Dr Irene De Lazaro, Post-doctoral Research Associate University Of Manchester	
12:15-12:30	SEL04 Mesenchymal cells engineered to express Collagen VII in a human:murine Recessiv dystrophic epidermolysis bullosa model Dr Anastasia Petrova, UCL Great Ormond Street Institute of Child Health	
12:30-13:30	BSGCT Annual General Meeting - Concert Hall BSGCT Memebrs only	
12:30-13:30	Lunch, posters and exhibition - Foyer, Café and Gallery	
12:45-13:30	Cell and Gene Therapy Catapult Drop-in Session - Gibson studio	
13:30-15:30	BSGCT Symposium 4 - Cancer gene and cell therapy Chairs: Angela Bradshaw and Alan Parker	
13:30-14:00	INV15 Oncolytic Adenoviruses Dr Ramon Alemany, Catalan Institute of Oncology	
14:00-14:30	INV16 ErbB targeted CAR T-cell immunotherapy of head and neck cancer – a phase 1 clinical trial Dr John Maher, Kings College London	
14:30-15:00	INV17 Targeting pancreatic and prostate cancer with E1B19K-deleted oncolytic adenoviruses Dr Gunnel Hallden, Barts Cancer Institute, Queen Mary University of London	

Thursday A	April 20th 2017 (continued)	
,	Concert Hall Richard Burton Theatre	
15:00-15:15	SEL05 3CAR: Gene edited anti-CD3 chimeric antigen receptor T cells Dr Jane Rasaiyaah, Research Associate Institute Of Child Health, UCL	
15:15-15:30	SELO6 Development of chimeric Ad5/Ad49 adenovirus vectors that exhibit enhanced tropism fo tumour cell lines Mr Alex Baker, Cardiff University	
13:30-15:30	UKRMP/BHF Session 1 Chairs: Oliver Thompson and Deepak Kumar UK Regenerative Medicine Platform Foundation	
13:30-13:50	SS01 Novel biofunctionalized scaffolds for anti-fibrotic, cartilage, and retinal applications Dr Jennifer Puetzer, Postdoctoral Research Associate Imperial College London	
13:55-14:15	SO2 A vessel wall progenitor cell niche underpins endogenous vascular regeneration Mairi Brittan, University Of Edinburgh	
14:20-14:40	503 Pluripotent stem cells to chrondrocytes for cell therapy and disease modeling Steven Woods, University of Manchester	
14:45-15:05	SSO4 Utilising multispectral optoacoustic tomography (MSOT) to assess organ function and to track labelled therapeutic cells for regenerative medicine therapies in vivo Dr Jack Sharkey, University of Liverpool	
15:10-15:30	SO5 Cell therapy of the heart studied using adult myocardial slices in vitro or Filippo Perbellini, Imperial College London	
15:30-16:00	fternoon refreshments, posters and exhibition - Foyer and Café	
16:00-18:00	BSGCT Symposium 5 - Genome Editing Chairs: Helen O'Neill and Simon Waddington	
16:00-16:30	INV18 CRISPR screens for functional genomics: technology and applications Professor Neville Sanjana, New York Genome Center and NYU	
16:30-17:00	INV19 Cas9 and Cpf1 gene editing of rare Cystic Fibrosis-causing mutations Dr Patrick Harrison, University College Cork	
17:00-17:30	INV20 Targeting differences at the T-cell receptor beta constant region for the diagnosis and treatment of T-cell malignancies	
	Dr Martin Pule, Autolus/UCL	
17:30-17:45	SELO7 Development of a high-throughput sequencing approach for off-target assessment in herapeutic genome editing applications or Ayokunmi Ajetunmobi, Head Of Sequencing Services, Desktop Genetics	
17:45-18:00	ELO8 CRISPR-CAR coupled lentiviral vector for efficient and homogenous T cell modification Christos Georgiadis, UCL, GOS Institute of Child Health	
16:00-18:00	UKRMP/BHF Session 2 Chairs: Rob Thomas and Katie Bardsley UK Regenerative Medicine Platform Foundation	
16:00-16:20	SS06 Human stem-cell derived epicardial cells in myocardial graft development Dr Johannes Bargehr, Phd Student University of Cambridge	
16:25-16:45	S07 Regenerating the kidney using lentivirus-labelled human pluripotent stem cells r loannis Bantounas, Post-doctoral Research Associate University of Manchester	
16:50-17:10	SS08 Progress towards a stem cell-derived cell replacement therapy for Parkinson's disease Dr Nicholas Blair, Postdoctoral Research Associate University Of Cambridge	
17:15-17:35	S09 Heart disease in systemic autoimmunity; an inducible mouse model to study regenerative rocesses and therapies under inflammatory conditions r Susanne Sattler, Imperial College London	
17:40-18:00	S10 Quality approaches to allow multi-site equivalence in pluripotent stem cell based product nanufacturing r Maryam Shariatzadeh, Loughborough Univerity	
18:00-19:15	GCT Exhibition, drinks & poster judging - Foyer, Café and Gallery	
19:30-23:00	Conference Dinner - National Museum Cardiff (Pre-registration required) Guest speaker - Professor Jonathan Bisson, Director, Health and Care Research Wales	

Friday Apr	il 21st 2017	
	Concert Hall Richard Burton Theatre	
09:00-10:30	BSGCT Symposium 6A - Gene and cell therapy for rare diseases Chairs: Alex Baker and Mustafa Munye	
09:00-09:30	INV21 Development of in vitro models of the human blood-brain barrier (BBB) using endothelial cells derived from induced pluripotent stem (iPS) cells Dr Rafael J. Yáñez-Muñoz, Royal Holloway, University of London	
09:30-10:00	INV22 Platelet production in vitro for transfusion from human pluripotent stem cells: the added power of genome editing Dr Cedric Ghevaert, University of Cambridge	
10:00-10:15	SEL09 Vector optimization for AAV-mediated gene therapy for Rett syndrome Dr Ralph Hector, University of Glasgow	
10:15-10:30	SEL10 Development of gene therapy for Niemann-Pick Type C disease Mr Michael Hughes, University College London	
09:00-10:30	BSGCT Symposium 6B - Cell and Vector production Chairs: Wardiya Afshar and Mimoun Azzouz	
09:00-09:30	INV23 Stable producer cell lines for lentiviral vector manufacture Dr Conrad Vink, GlaxoSmithKline	
09:30-10:00	INV24 Creation of lentivirus vectors using novel DNA vectors Dr Rajvinder Karda, University College London	
10:00-10:15	SEL11 Dynamic mechanistic modelling for optimisation of therapeutic cell culture processes Dr Robert Thomas, Loughborough University	
10:15-10:30	SEL12 Sensitivity of lentiviral vectors pseudotyped with vesiculovirus G proteins to inactivation by human serum complement Mr Altar Munis, Nibsc	
10:30-11:00	Morning refreshments, posters and exhibition - Foyer, Café and Gallery	
11:00-12:30	BSGCT Symposium 7A - Future challenges Chairs: Andrew Baker and Zoe Hewitt	
11:00-11:20	INV25 Genetic changes in human pluripotent stem cells: implications for basic biology and regenerative medicine Dr Ivana Barbaric, University of Sheffield	
11:20-11:40	NV26 Unravelling AAV genotoxic potential: where do we stand or Irene Gil-Farina, German Cancer Reseach Center (DKFZ) / National Center for Tumor Diseases (NCT)	
11:40-12:00	INV27 Regulatory issues related to gene and cell therapy Dr Jacqueline Barry, Cell And Gene Therapy Catapult	
12.00-12:15	SEL13 Are hospital pharmacy departments ready to handle gene therapy medicines? Professor Nicola Stoner, Consultant Pharmacist, Oxford University Hospitals Nhs Foundation Trust	
12.15-12:30	SEL14 A human IPS cell model for gene therapy vector safety evaluation Dr Michael Themis, Lecturer Brunel University London	
11:00-12:30	BSGCT Symposium 7B - Gene and cell therapy for blindness Chairs: Ralph Hector and Sue Kimber	
11:00-11:30	INV28 Cell therapy for age-related macular degeneration Dr Amanda Carr, Research Fellow UCL Institute of Ophthalmology	
11:30-12:00	INV29 Gene therapy for inherited blindness Professor James Bainbridge, University College London	
12.00-12:15	SEL15 AAV-mediated transduction of bipolar cells is essential to prolong photoreceptor survival in Cln6nclf mice Dr Sophia Kleine Holthaus, Ucl Institute Of Ophthalmology	
12.15-12:30	SEL16 Combining stem cells and cochlear electrode arrays: towards a true 'bionic' ear Professor Marcelo Rivolta, Centre For Stem Cell Biology, University Of Sheffield	
12:30-13:00	BSGCT Networking Lunch and end of Conference - Foyer & Café	