9.00-10.00	**Registration and welcome tea & coffee**	
10.00-10.05	**Welcome and introduction**	Tuke Hall
10.05-12.00	**Session 1: Development of gene editing technologies** **Chairs** Ivana Barbaric; *University of Sheffield* Versha Prakash; *Royal Holloway University of London*	Tuke Hall
10.05-10.35	**INV01: SNPing in and out of stem cell-cardiomyocytes with Cas9/CRISPR** Chris Denning; *University of Nottingham*	
10.35-11.10	**INV02: The self-inactivating Kamicas9 system for CNS gene editing** Nicole Déglon; *University of Lausanne*	
11.10-11.25	**OR01: Universal antibody-mediated cell therapy (uACT)** Annie Etuk; *University College London*	
11.25-11.40	**OR02: Highly efficient delivery and transfection of gene loaded polymer nanoparticles by novel GET peptide** Aveen Jalal; *University of Nottingham*	
11.40-12.05	1 minute rapid poster presentations (11 posters)	
12.05-13.15	**Lunch and exhibition**	

12.15-13.15 **Posters**

12.15-12.45 Posters: even numbers

12.45-13.15 Posters: odd numbers

13.15-15.00 **Session 2: Disease modelling with gene edited cells** — Tuke Hall

Chairs
Sian Harding; *Imperial College London*
Nora Clarke; *Imperial College London*

13.15-13.45 **INV03: hiPSC disease modelling in engineered heart tissue format**
Arne Hansen; *University Medical Center Hamburg-Eppendorf*

13.45-14.15 **INV04: Exploiting induced pluripotent stem cell-derived macrophages as a cellular system to study host-pathogen interactions**
Amy Yeung; *Wellcome Sanger Institute, Hinxton*

14.15-14.45 **INV05: Applications of iPSC retinal organoids in disease modelling and therapeutics**
Amelia Lane; *University College London*

14.45-15.00 **OR03: CRISPR/Cas9 genome editing in human pluripotent stem cell-cardiomyocytes provides a platform for modeling hypertrophic cardiomyopathy**
Diogo Mosqueira; *University of Nottingham*

15.00-15.30 **Tea break and posters**

15.30-17.00 **Session 3: Gene editing and translation**

Tuke Hall

Boehringer Ingelheim

Chairs
Uta Griesenbach; *Imperial College London*
Robyn Bell; *Imperial College London*

15.30-15.55 **INV06: Genome engineered T cells for blood malignancies**
Waseem Qasim; *University College London*

15.55-16.20 **INV07: Gene therapy for spinal muscle atrophy**
Mimoun Azzouz; *University of Sheffield*

16.20-16.45 **INV08: Producing megakaryocytes from iPSCs at GMP grade for clinical-grade platelet production**
Moyra Lawrence; *University of Cambridge*

16.45-17.00 **OR04: Targeted gene therapy for treatment of X-linked agammaglobulinemia (XLA)**
Catarina Cunha-Santos; *University College London*

17.00-17.15 **Short comfort break**

17.15-18.00 **Keynote session**

Tuke Hall

Chairs
Peter Andrews; *University of Sheffield*
Saqlain Suleman; *Brunel University*

KN01: Gene editing of human embryos
Kathy Niakan; *The Francis Crick Institute, London*

18.00-18.15 **Presentation of awards and close of conference**

18.15-21.00 **Networking drinks**

Tuke Common Room

ENVIGO

P01

Restoration of normoglycemia in diabetic models via insulin gene therapy
Asha Recino
University of Cambridge

P02

Comparison of AAV1 and AAV5 viral vector serotypes and four promoters for viral transduction of the corticospinal tract
Bart Nieuwenhuis
University of Cambridge

P03

Rapid purification of adenovirus vectors avoiding CsCl gradient ultracentrifugation
Saqlain Suleman
Brunel University London

P04

Intracellular siRNA delivery using silicon nanoneedle arrays
Ioanna Mylonaki
Imperial College London

P05

CRISPR-CAR lentiviral vector coupling transgene expression with targeted Cas9 cleavage for the engineering of universal T Cells
Roland Preece
University College London

P06

Optimisation of HEK293T Culture for improved gene therapy manufacture
Angharad Evans
Loughborough University

P07

Isogenic pairs of patient-derived hiPSC-CMs with an apical hypertrophic cardiomyopathy / left ventricular non-compaction-associated ACTC1 E99K mutation unveil differential functional deficits
Thomas Owen
Imperial College London

P08

CRISPR/Cas9 genome editing of RDEB mutation hotspot
Gaetano Naso
University College London

P09

Using bioluminescent hiPSC reporter lines and high content screening to identify novel compounds for cardiomyocyte maturation
Elizabeth Scott
University of Nottingham

P10

Vector-free hiPSCs for facilitate transfer to clinical practice
Irena Koutna
St. Anne's University Hospital Brno

P11

Epicardial cell transfection with cationic polymeric nanocomplexes
Liliana Brito
Imperial College London

P12

Research beyond borders
Matthias Duechs
Boehringer Ingelheim, Biberach an der Riss