

TUESDAY 7 OCTOBER

08:30 - Registration Foyer

EDUCATION SESSION / CLINICAL TRIALS AND COMMERCIALISATION WORKSHOP REGISTRATION

09:00-10:45 - PARALLEL - Room Parallel A

EDUCATION SESSION 1a - Gene delivery: going viral and non-viral

Chairs: Hildegard Büning, Hannover Medical School

09:00 Welcome

09:05 Hildegard Büning, Hannover Medical School

EDU01: Insights on the adeno-associated virus (AAV) vector system

09:30 Anne Galy, ART-TG – Inserm US35

EDU02: Insights on the lentivirus vector system

09:55 Juan Antonio Marchal, University of Granada

EDU03: Insights on lipid nanoparticles and exosomes

10:20 Cristian Smerdou, CIMA, University of Navarra, Pamplona

EDU04: Insights on self-amplifying RNAs and their delivery

09:00-10:45 - PARALLEL - Room Parallel B

EDUCATION SESSION 1b - Genetic diseases: there is more than one treatment strategy

Chairs: Gloria Gonzalez-Aseguinolaza, CIMA, University of Navarra, Pamplona

09:00 Welcome

09:05 Gloria Gonzalez-Aseguinolaza, CIMA, University of Navarra, Pamplona

EDU05: Gene addition vs gene editing strategies in liver-directed gene therapy

09:30 Virginia Haurigot

EDU06: Gene therapy for the sensory systems (vision and audition)

09:55 Jeff Chamberlain, University of Washington School of Medicine

EDU07: Gene addition vs gene editing strategies in muscular dystrophy

10:20 Paula Rio, Ciemat Madrid

EDU08: Gene addition vs. gene editing in Fanconi Anemia

10:45-11:15 - Pavilion 2

EDUCATION SESSION COFFEE BREAK

11:15-13:00 - PARALLEL - Room Parallel A

EDUCATION SESSION 2a - Gene and genome editing: from basics to applications

Chairs: Cristian Smerdou, Cima Universidad de Navarra

11:15 Toni Cathomen, University of Freiburg

EDU09: From Blunt Cuts to Fine Tweaks: Navigating the Therapeutic Genome Editing Toolbox

11:40 Angelo Lombardo, SR-Tiget, Milan

EDU10: Modifying the epigenome - novel strategies in gene therapy

12:05 Sandra Rodriguez, Madrid

EDU11: Gene editing as tool in cancer models

12:30 Francisco Martin, GenYo, Granada

EDU12: Improving living drugs by gene editing

11:15-13:00 - PARALLEL - Room Parallel B

EDUCATION SESSION 2b - Cell-based strategies to cure diseases

Chairs: Anne Galy, ART-TG – Inserm US35

11:15 Maria Eugenia Fernandez-Santos, Madrid

EDU13: Cell-based strategies in cardiovascular regeneration

11:40 Juan Roberto Rodriguez-Madoz, CIMA, University of Navarra, Pamplona

EDU14: CAR T and CAR NK cells in cancer and beyond

12:05 Aida Platero-Luengo, IBiS, University Hospital Virgen del Rocío / CSIC / University of Seville

EDU15: Partial Reprogramming: A Novel Approach to Combat Aging-related Decline

12:30 Ana Belen Muñoz Manchado, Faculty of Medicine, University of Cadiz/INIbICA

EDU16: Cell-based therapies in the Nervous System

09:30-11:30 - WORKSHOP - Room Parallel C

CLINICAL TRIALS AND COMMERCIALISATION WORKSHOP 1

Chairs: Alessandro Aiuti, SR-Tiget, Milan & Juan Bueren, Ciemat, Madrid

09:30 Welcome and introduction

09:35 Barbara Bonamassa, AIFA, Italy

CTC01: Development and marketing authorization for ATMPs in the EU

09:55 Annette Kunkle, JOIN4ATMP consortium

CTC02: Results of the Join4ATMP survey on ATMP development and access

10:15 Zuzana Spacirova, Junta de Andalucia, Granada

CTC03: Understanding the pricing dynamics of advanced therapy medicinal products developed by academic developers in Spain

10:35 Beth White, Orphan Therapeutics Accelerator.

CT04: Not for profit models for accelerating development and commercialization of ultrarare orphan drugs

10:55 Roundtable and Q&A

11:30-11:45 - Pavilion 2

CLINICAL TRIALS AND COMMERCIALISATION WORKSHOP COFFEE BREAK

11:45-13:00 - WORKSHOP - Room Parallel C

CLINICAL TRIALS AND COMMERCIALISATION WORKSHOP 2

Chairs: Alessandro Aiuti, SR-Tiget, Milan & Juan Bueren, Ciemat, Madrid

11:45 Christopher Baum, Berlin Institute of Health at Charité, Berlin

CTC05: National Approaches to Advance GCT in Europe: Potential for Synergies

12:05 Paschalia Koufokotsiou, European commission

CTC06: EU initiatives toward a sustainable ecosystem for ATMPs in Europe

12:25 Manuel Arellano, Vice President of the Patient Organizations Platform

CTC07: Accessibility to ATMP: a patient perspective

12:45 Roundtable and Q&A

TUESDAY 7 OCTOBER	
12:00-14:00 · Registration Foyer REGISTRATION	
14:00-16:30 · PLENARY · Auditorium SESSION 1: ESGCT 2025 Opening: Gene Editing <i>Chairs: Alberto Auricchio, Tigem, Naples; Paula Rio, Ciemat/CIBERER/IIS-Fundación Jiménez Díaz, Madrid; Juan Jose Toledo-Aral, Universidad de Sevilla</i> 14:00 Alberto Auricchio, Tigem, Naples 14:10 Paula Rio, Ciemat/CIBERER/IIS-Fundación Jiménez Díaz, Madrid 14:20 Juan Jose Toledo-Aral, Universidad de Sevilla Welcome 14:30 Luigi Naldini, SR-Tiget, Milan INV01: Paving the way to next-generation genetic engineering of hematopoiesis 15:00 Kiran Musunuru, UPenn INV02: Developing and deploying N-of-1 gene-editing therapies 15:30 Omar Abudayyeh, Harvard Medical School INV03: Programmable technologies for biology, genome editing, and mRNA therapies 16:00 Lukas Jeker, University of Basel INV04: Molecular Cell Shielding on the Path to the Clinic	
16:30-17:00 · Pavilion 2 COFFEE BREAK	
17:00-19:30 · PARALLEL · Room Parallel A SESSION 2a: Metabolic diseases I <i>Chairs: Brian Bigger, University Of Edinburgh; Nerea Zabaleta, CIMA, University of Navarra</i> 17:00 Pasquale Piccolo, TIGEM, Naples INV05: Overcoming the challenges of gene therapy in inborn error of metabolism with liver damage 17:30 George Diaz, iECURE, Philadelphia, USA INV06: OTC-HOPE: The first in vivo, liver directed, AAV-mediated, gene insertion clinical trial in infants 18:00 Andrew Lin, Lingyi Biotech OR001: Evaluation of Clinical Safety and Efficacy of LY-M001: A Phase I/II Trial of AAV8-Mediated Gene Therapy for Gaucher Disease Type I 18:15 Maria Ester Bernardo, SR-Tiget, Milan OR002: Extensive metabolic detoxification and favorable clinical outcomes sustained through 5 years post-treatment in Hematopoietic Stem Cell Gene Therapy (OTL-203) for Mucopolysaccharidosis Type I-Hurler 18:30 Asmaa Naseem, University College London, Institute of Child Health OR003: In vivo prenatal base editing for the treatment of Krabbe disease 18:45 Kate Mullany, Children's Medical Research Institute, University of Sydney OR004: Exploring a single target tissue strategy for AAV-mediated gene transfer in Maple Syrup Urine Disease 19:00 Elena Barbon, SR-Tiget, Milan OR005: Correction of glycogen storage disease type Ia by in vivo liver-directed lentiviral gene therapy in a mouse model 19:15 Shaun Wood, University of Edinburgh OR006: Development of Heparan Sulfate Binding Peptides, fused to Iduronate-2-Sulfatase, for the Treatment of Mucopolysaccharidosis Type II	
17:00-19:30 · PARALLEL · Room Parallel B SESSION 2b: AAVs/Non integrative vectors: Technology <i>Chairs: Hildegard Büning, Hannover Medical School; Aravind Asokan, Duke University</i> 17:00 Ben Deverman, Broad Institute, Harvard INV07: Toward a one time epigenetic silencing treatment for prion disease with BBB crossing AAVs 17:30 Douglas Anderson, University of Rochester Medical Center INV08: StitchR and CirculR: From RNA Stitching Technologies to Therapeutics 18:00 Adrian Briggs, Shape Therapeutics OR007: Engineered AAV5 capsid SHP-DB1 efficiently targets the NHP brain after intravenous injection and transduces >95% of neurons in the Parkinson's disease-critical substantia nigra 18:15 Stefano Parracino, SR-Tiget, Milan OR008: Covalent Antibody Conjugation to AAV9 for Targeted Gene Therapy of High-Risk Neuroblastoma 18:30 Shunsuke Iizuka, JCR Pharmaceuticals OR009: Generation of a novel capsid engineering platform enhances CNS and muscle tropism of AAV vectors while reducing tropism to the liver 18:45 Lijia Ma, Westlake University, China OR010: An AAV6 variant engineers human resting T cells in vivo 19:00 Cenfeng Chu, OBIO Technology (Shanghai) Corp., Ltd. OR011: AAV-WM04, a Novel High-Efficiency Vector, Achieves Low-Dose Therapeutic Efficacy in Preclinical and Clinical Studies of OTOF-Related (DFNB9) Hearing Loss 19:15 Beatriz Serra, University of Coimbra OR012: Validation of Systemic AAV-PHP.eB-Mediated Delivery of Cholesterol Hydroxylase CYP46A1 as a Non-Invasive Gene Therapy Approach for Spinocerebellar Ataxia Type 3	 All-In AAV 

TUESDAY 7 OCTOBER	
17:00-19:30 · PARALLEL · Room Parallel C SESSION 2c: CNS & neurosensory I Chairs: <i>Ivana Trapani</i>, Telethon Institute of Genetics and Medicine; <i>Assumpcio Bosch</i>, Institut de Neurociències, Universitat Autònoma de Barcelona 17:00 Bev Davidson, <i>University of Pennsylvania</i> INV09: Improving on target gene therapies for the brain 17:30 Pietro Fratta, <i>Crick Institute, London</i> INV10: Novel Gene Therapies for ALS and TDP-43 proteinopathies 18:00 Sergi Verdes, <i>Universitat Autònoma de Barcelona</i> OR018: Targeting Skeletal Muscle to protect Motor Neurons: α-Klotho Gene Therapy acts through NMJ Signaling in ALS 18:15 Yuri Ciervo, <i>University of Padua</i> OR016: Restoration of progranulin via microglia replacement with engineered hematopoietic stem cells corrects the phenotype of granulin-deficient mice 18:30 Sara Marco, <i>Universitat Autònoma de Barcelona</i> OR013: Treatment of Sandhoff and Tay-Sachs diseases with an innovative gene therapy expressing a covalently linked HEXA protein 18:45 Hanan Khabou, <i>Sparing Vision</i> OR014: Development of SPVN20, a gene therapy for cone reactivation in inherited retinal degeneration 19:00 Arjun Padmanabhan, <i>Tigem, Naples</i> OR015: AAV-HITI for therapy of dominant retinitis pigmentosa 19:15 Stefano Espinoza, <i>Università Del Piemonte Orientale</i> OR017: Multi-SINEUP: a novel RNA therapeutic approach for 22q11.2 microdeletion syndrome	
17:00-19:30 · PARALLEL · Room Parallel D SESSION 2d: Immunotherapy and CAR T cells I Chairs: <i>Chiara Magnani</i>, University of Zurich; <i>Waseem Qasim</i>, University College London 17:00 Elena Sotillo, <i>Stanford University</i> INV11: Combined silencing of MED12 and activation of IL2 by epigenetic editing enhances CAR T antitumor potency. 17:30 Philippe Parone, <i>EsoBiotec, Mont Saint Guibert</i> INV12: In Vivo CAR-T Cell Therapy using Engineered Lentiviral Vectors: From Concept to Clinic 18:00 Malavika Sreekumar Nair, <i>Lund Stem Cell Centre, Lund University</i> OR019: Epigenetic adjuvants for in vivo dendritic cell reprogramming 18:15 Jacek Lubelski, <i>Nanocell</i> OR020: Novel non-viral DNA-based gene therapy vector for in vivo CAR T engineering: insights into CAR-T persistence and biodistribution 18:30 Susanna Cesarano, <i>SR-Tiget, Milan</i> OR021: Development of antigen-specific Treg-based therapeutic products for Type 1 Diabetes 18:45 Eva García Veros, <i>Fundación para la Investigación Biomédica Hospital Universitario 12 de Octubre</i> OR022: Development of dual-targeted STAb-T cells for cancer immunotherapy 19:00 Laura Cabizzosu, <i>Ludwig Institute for Cancer Research; UNIL; EPFL; CHUV - Lausanne</i> OR023: Engineering Exhaustion-Resistant T Cells with IL-2 Variant (IL-2v) and CD40 Agonists to Enhance Antitumor Immunity 19:15 Daniela Cesana, <i>SR-Tiget, Milan</i> OR024: Unveiling CAR-T Therapy Efficacy and Toxicity Through Cell-Free DNA Profiling	Lonza
19:30-21:00 · Pavilion 2 WELCOME RECEPTION	Lonza  VIRALGEN All-In AAV

WEDNESDAY 8 OCTOBER	
08:00-08:30 · Registration Foyer	REGISTRATION
08:30-10:30 · PARALLEL · Room Parallel A	SESSION 3a: Infectious diseases / Vaccines <i>Chairs: Chantal Pichon, INSERM ARNm; Anne Galy, ART-TG – Inserm US35</i> 08:30 Lisa Chakrabarti, Institut Pasteur, Paris INV13: Development of lymphoid organ-on-chip models to evaluate mRNA vaccine immunogenicity 09:00 Robin Shattock, Imperial College London INV14: Development of self-amplifying RNA for vaccines and therapeutics Winner of the ESGCT breakthrough of the year award supported by the Fresenius Foundation 09:30 Nerea Zabaleta, CIMA, University of Navarra INV15: Immunogenic rAAVs as genetic vaccines 10:00 Rut Mora Buch, Blood and Tissue Bank, Barcelona OR025: BK virus-specific T cell response associated with HLA genotypes, RhD status, and CMV or EBV serostatus in healthy donors for optimized cell therapy 10:15 Stefanie Gawletta, TronGmbH OR026: Development of a trans-amplifying RNA that conserves its performance upon N1-methylpseudouridine modification
08:30-10:30 · PARALLEL · Room Parallel B	SESSION 3b: Virotherapy and cancer gene therapy <i>Chairs: Marta Alonso, Universidad de Navarra; Dirk Nettlebeck, German Cancer Research Center Heidelberg</i> 08:30 Ramon Alemany, Catalan Institute of Oncology, IDIBELL INV16: Cancer Virotherapy with Armed Oncolytic Adenoviruses 09:00 Alan Melcher, Institute of Cancer Research, London INV17: T cell receptor-antigen engagement dynamics with oncolytic virotherapy defines novel subsets of anti-tumour CD8 cells 09:30 Kate Friesen, University of Oxford OR030: Exosomes as a stromal-targeting extension of oncolytic virus therapeutics 09:45 Alvaro Morales-Molina, Instituto de Salud Carlos III, Madrid OR028: Phase Ib clinical trial assessing safety, tolerability, and preliminary efficacy of AlocELYVIR (allogeneic mesenchymal cells + oncolytic adenovirus) in pediatric patients with recurrent/progressive medulloblastoma 10:00 Salvatore Russo, University of Helsinki OR029: Effect of Extracellular vesicles in remodeling the Tumor Micro Environment by DNMT1 downregulation for enhanced cancer immunotherapy
08:30-10:30 · PARALLEL · Room Parallel C	SESSION 3c: Nanomedicines for gene delivery: From research to clinical translation <i>Chairs: Hélder Santos, University Medical Center Groningen, University of Groningen; Maria Alonso, University of Santiago de Compostella</i> 08:30 Willem Mulder, Radboud Universiteit INV18: Nature-inspired mRNA delivery to immune cells 09:00 Maria Kavallaris, UNSW Sydney INV19: Targeting high-risk paediatric cancer on a tiny scale 09:30 Liliana Mendonça, Centre for Neuroscience and Cell Biology - University of Coimbra OR031: Differentiation-inducing drug encapsulated in brain-targeted liposomes with enhanced brain delivery increased human iPSC-derived neuroepithelial stem cell differentiation into neurons 09:45 Guillem Pascual Pasto, The Children Hospital of Philadelphia OR032: Restoration of Rb tumor suppressor function in retinoblastoma via GPC2-targeted RB1 mRNA lipid nanoparticles 10:00 Eline Van Diest, UMC Utrecht OR033: Specificity and biodistribution of a novel T-cell targeted LNP designed for efficient and stable CAR T generation <i>in vivo</i> 10:15 Go Sugahara, PhoenixBio Co. Ltd OR034: Species-specific gene expression manipulation in humanized livers of chimeric mice via siRNA-encapsulated lipid nanoparticle treatment
08:30-10:30 · PARALLEL · Room Parallel D	SESSION 3d: Lentiviral vectors / Integrative vectors <i>Chairs: Christian Brendel, Harvard Medical School; Axel Schambach, Hannover Medical School</i> 08:30 Mario Leonardo Squadrito, SR-TIGET, Milan INV20: Engineered Lentiviral Vectors for the Therapeutic Targeting of Liver Metastases 09:00 Cecilia Cotta-Ramusino, Tessera Therapeutics INV21: Writing DNA with RNA: Genome Engineering by Target-Primed Reverse Transcription 09:30 Chiara Bresesti, SR-Tiget, Milan OR035: Comet LV: a lentiviral vector-based mRNA co-packaging technology for enhanced ex vivo and in vivo gene therapy 09:45 Nathan Jeffreys, Paediatric BMT and gene therapy department, Royal Manchester Children's Hospital OR036: Ex-vivo modification of autologous CD34+ HSPCs using a CD11B-directed lentiviral vector encoding APOEII-tagged human IDS leads to supraphysiological enzyme activity and early biochemical correction of neuropathic mucopolysaccharidosis type II 10:00 Susana Navarro Ordonez, CIEMAT / CIBERER / IIS-Fundación Jimenez Diaz OR037: Toward Clinical Translation of Lentiviral Gene Therapy for Diamond-Blackfan Anemia: Preclinical Studies Targeting RPS19 10:15 Francesco Gazzo, SR-Tiget, Milan OR038: Oncogene activation by lentiviral vectors drives senescence-linked clonal haematopoiesis and mutation accumulation in HSPC gene therapy

WEDNESDAY 8 OCTOBER	
10:30-11:00 · Pavilion 2 COFFEE BREAK	
11:00-13:00 · PLENARY · Auditorium SESSION 4: Cancer gene therapy <i>Chairs: Francisco Martin, GENYO - Universidad de Granada; Bernhard Gentner, Centre Hospitalier Universitaire Vaudois (CHUV)</i> 11:00 Sonia Guedan, IDIBAPS, Barcelona INV22: Next-Generation CAR-T Cells: Overcoming Resistance Toward Clinical Translation 11:30 Katy Rezvani, MD Anderson INV23: Optimizing NK Cell Engineering for Therapeutic Efficacy 12:00 Luis Álvarez Vallina, CNIO Madrid INV24: Engineered STAb-T cells secreting anti-BCMA T cell engagers control multiple myeloma and promote immune memory in vivo. 12:30 Vincenzo Cerullo, University of Helsinki INV25: PeptiCRAD: From Lab Discovery to the Clinic – A Highly Customizable Platform for Personalized Cancer Vaccines	
13:00-14:00 · Pavilion 2 LUNCH	
13:30-14:30 · Room Parallel A LUNCHTIME SYMPOSIUM: PlasmidFactory - Virus-free genetic engineering using Minicircles for scalable & effective cell therapies <i>Chairs: Michael Hudecek, Universität Würzburg; Dirk Winnemöller, PlasmidFactory GmbH, Bielefeld</i> 13:30 Dirk Winnemöller, PlasmidFactory GmbH, Bielefeld Welcome and brief introduction on PlasmidFactory's Minicircle 13:40 Michael Hudecek, Universität Würzburg Brief introduction on Minicircle-based CAR-T cells in clinical applications 13:50 Zoltán Ivics, Universität Leipzig Enhanced efficiency of Sleeping Beauty transposon engineering of therapeutic cells by Minicircle vectors 14:00 Volker Lennerz, TheryCell GmbH, Berlin Non-viral manufacturing of tumor-specific TCR-T cells for immunotherapy of multiple advanced solid cancers 14:10 Juan R. Rodriguez-Madoz, Universidad de Navarra Transposon-based non-viral vectors for improved CAR-T therapies 14:20 Ulf Grawunder, T-CurX GmbH, Würzburg Promises and challenges of in vivo CAR-T therapies All speakers are available for Q&A Or visit us at booth B21/B22 for your individual questions	
13:30-14:30 · Room Parallel B LUNCHTIME SYMPOSIUM: ERC-EIC: From Frontier Research to Innovation: ERC's and EIC's funding opportunities <i>Chairs: Orsolya Symmons, EIC; Janka Mátrai, ERC</i> 13:30 Tina Lebar, National Institute of Chemistry & Raffaella Di Micco, SR-Tiget, Milan	 European Research Council Established by the European Commission
13:30-14:30 · Room Parallel D LUNCHTIME SYMPOSIUM: Sartorius - Walking the Tightrope Balancing Process Optimization & Cost Implications to Improve CGT Accessibility <i>Chair: Hanna P. Lesch, Independent Expert - Advanced Therapies / Chair of ESGCT Manufacturing Committee / Adj. Prof. Biomedicine and Bioprocessing, University of Eastern Finland</i> 13:30 David Ede, Segment Technology Manager, Advanced Therapy Solutions 14:00 Behnam Partopour, Principal Scientist, Advanced Bioprocessing	
14:00-15:30 · Fibes 2 POSTER SESSION Uneven Posters P0001, P0003, P0005 etc	
15:30-17:30 · PLENARY · Room Auditorium SESSION 5: In vivo gene therapy <i>Chairs: Gloria Gonzalez-Aseguinolaza, CIMA, University of Navarra, Pamplona; Pasquale Piccolo, Tigem Naples</i> 15:30 Jeffrey Chamberlain, University of Washington INV26: Next generation gene therapies for DMD 16:00 Ellen Reisinger, University of Tübingen INV27: OTOF – from basic research to gene therapy for hearing impairment 16:30 Birgit Schultes, Intellia Therapeutics INV28: In vivo CRISPR/Cas9 gene editing for ATTR amyloidosis and HAE - how close are we to getting these therapies to the market? 17:00 Terry Flotte, University of Massachusetts INV29: Gene Therapy for Tay-Sachs and Sandhoff Diseases	

WEDNESDAY 8 OCTOBER	
17:30-18:00 · Pavilion 2	COFFEE BREAK
18:00-19:30 · PARALLEL · Room Parallel A	SESSION 6a: Manufacturing I: Delivery technologies <i>Chairs: Ana Coroadinha, iBET; Matthias Hebben, Complement Therapeutics Ltd</i> 18:00 Cesar Trigueros, Virralgen INV30: A Strategic Platform Roadmap for Commercializing Gene Therapy 18:30 Virginia Fusco, Tigem, Naples OR040: Engineering a stable cell line for AAV production through synthetic biology. 18:50 Tarik Hadi, Takara Bio Europe OR041: Maximizing MSC-EV Yield with Preserved Quality Using a Xeno-Free, Defined Formulation 19:10 Marco Radukic, Bielefeld University OR043: Multivariate toolchain for analysis of emerging AAV critical quality attributes
18:00-19:30 · PARALLEL · Room Parallel B	SESSION 6b: Cardiovascular & muscular diseases <i>Chairs: Thierry VandenDriessche, VUBrussels; Fulvio Mavilio, Orchard Therapeutics</i> 18:00 Wolfram Zimmermann, Goettingen University INV31: Engineered heart muscle allografts for heart repair in primates and humans 18:30 Didier Stainier, Max Planck Institute for Heart and Lung Research, Bad Neuheim INV32: Transcriptional adaptation, an RNA-based mechanism of genetic compensation 19:00 Seppo Yla Herttuala, University of Eastern Finland OR044: Adenoviral vascular endothelial growth factor-DΔNΔC gene therapy improves clinical symptoms, exercise tolerance and health-related quality of life in refractory angina pectoris patients. ReGenHeart Phase 2 trial 19:15 Han Qiu, Accuredit Therapeutics OR045: Efficacy and safety of ART002, a single-dose gene editing therapy, in patients with severe heterozygous familial hypercholesterolemia
18:00-19:30 · PARALLEL · Room Parallel C	SESSION 6c: CNS & neurosensory II <i>Chairs: Robin Ali, Kings College London; Ellen Reisinger, University of Tübingen</i> 18:00 Paul Yang, Casey Eye Institute, Portland INV33: Safety and efficacy of a phase 1/2 clinical trial for AAV5-mediated retinal gene augmentation of GUCY2D in Leber congenital amaurosis 1 18:30 Steven Gray, UT Southwestern INV34: Utilizing and expanding AAV platform approaches to treat neurological diseases 19:00 Françoise Piguet, GENOV - Paris Brain Institute OR046: Combine intravenous gene therapy overexpressing CYP46A1 and BBB opening can rescue Parkinson disease in a NHP induced PD model 19:15 Jake Zhong, Fudan University OR047: Gene therapy vs. cochlear implantation in restoring hearing function and speech perception for congenital deafness individuals
18:00-19:30 · PARALLEL · Room Parallel D	SESSION 6d: Non viral vectors / Nanotechnology <i>Chairs: Zoltan Ivics, University of Leipzig/Fraunhofer Institute IZI; Willem Mulder, Radboud Universiteit</i> 18:00 Helder Almeida Santos, University Medical Center Groningen INV35: Beta-Glucan nanoformulations for cardiac RNA-based therapies 18:30 Maria Alonso, University of Santiago de Compostella INV36: Lipid-Polymer Hybrid (LPH) Nanoparticles: Next-Generation Platforms for RNA Therapeutics 19:00 Jesus Beltran, DNAmic Biotech Valencia, The Scripps Research Institute, La Jolla, CA - MIT, Cambridge, MA - University of California, San Diego OR048: Development of a fully human-based delivery platform for in vivo cell-targeted therapies 19:15 Sander Kooijmans, University Medical Center, Utrecht OR049: A novel siRNA backbone improves siRNA delivery by biological vectors

THURSDAY 9 OCTOBER	
08:00-08:30 · Registration Foyer	REGISTRATION
08:30-10:30 · PARALLEL · Room Parallel A	SESSION 7a: Immune responses to gene therapy <i>Chairs: Gwladys Gernoux, TaRGeT, Nantes University, Inserm; Carmen Unzu, CIMA, University of Navarra, Pamplona</i> 08:30 Giuseppe Ronzitti, Genethon INV37: Harnessing the potential of Immunoglobulin G degrading enzymes (Ide) for the treatment of AAV-seropositive patients 09:00 Oumeya Adjali, University of Nantes INV38: Navigating Adaptive Immune Responses to AAV Vectors: Implications for Gene Therapy 09:30 Rebecca Xicluna, F.Hoffmann-La Roche Ltd OR050: Transient blockade of the CD28/B7 costimulatory pathway allows AAV readministration by suppressing AAV vector and transgene immunity 09:45 Carla Linares-Simon, CIMA, Centro de Investigación Médica Avanzada, University of Navarra, Pamplona OR051: Characterization of an immunotolerant peptide display for the modulation of the anti-AAV immune response 10:00 Jean-Philippe Combal, Vivet Therapeutics OR052: VTX-PID (imlifidase) Mediated Optimal Depletion of Anti-AAV3B Neutralizing Antibodies in Human Subjects allows to Expand Patient Eligibility for future AAV-Based Gene Therapies : Results of a dose ranging and PK/PD modeling approach 10:15 Isabella Ramella Gal, iBET - Institute of Experimental Biology and Technology OR053: A human 3D liver model to unravel rAAV-driven innate immune responses
08:30-10:30 · PARALLEL · Room Parallel B	SESSION 7b: Hematopoietic & PID I <i>Chairs: Don Kohn, UCLA; Giorgia Santilli, University College London</i> 08:30 Anna Villa, SR-Tiget INV39: HDR mediated Gene Editing in Hematopoietic Stem and progenitor Cells to cure RAG1 deficiency 09:00 Sung-Yun Pai, NIH - RECORDING INV40: Current status of gene therapy for X-linked severe combined immunodeficiency 09:30 Denise Klatt, Dana Farber/Boston Children's Cancer and Blood Disorders Center, Harvard Medical School OR054: Engineered alpha retroviral like particles for in vivo GT 09:45 Daniele Canarutto, SR-Tiget, Milan OR055: Single-cell DNA sequencing provides a comprehensive assessment of genomic editing outcomes of gene-corrected CD4 T-cells for treating Hyper IgM1 supporting the start of clinical trial 10:00 Annalisa Santini, Imagine Institute, Paris OR056: Correction of the SCD mutation with a safe base-editing strategy characterized by high specificity and low toxicity 10:15 Karin Pike Overzet, Leiden University Medical Center OR057: Clinical trial update: Autologous hematopoietic stem cell-based lentiviral gene therapy for Recombination-activating gene-1 severe combined immunodeficiency (RAG1-SCID)
08:30-10:30 · PARALLEL · Room Parallel C	SESSION 7c: Gene Editing I: Ex vivo applications <i>Chairs: Samuele Ferrari, Ospedale San Raffaele, Milan; Marianne Carlon, KU Leuven</i> 08:30 Marcello Maresca, Astra Zeneca INV41: In vivo Genome Editing with SpOT-On precision 09:00 Toni Cathomen, University of Freiburg INV42: Under the Lens: Unpredictable Off-Target and Structural Effects in Genome Editing 09:30 Alessandra Weber, SR-Tiget, Milan OR058: A universal and versatile platform for safe and efficient targeted integration of therapeutic genes in hematopoietic stem cells 09:45 Pietro Rigoni, University of Padua OR059: A novel and empowered TARGETED Gene Addition Approach at a Relevant Microglia Locus for the Treatment of X-linked Adrenoleukodystrophy -- Mechanistic Insights 10:00 Manuel Palacios Perez, Ciemat / Ciberer / IIS-FJD OR060: Optimized therapeutic homologous recombination in RPL5-deficient Diamond-Blackfan anemia hematopoietic stem and progenitor cells 10:15 Giandomenico Turchiano, University College London OR061: Longitudinal Tracking of Chromosomal Stability in Mice After Gene Editing

THURSDAY 9 OCTOBER	
08:30-10:30 · PARALLEL · Room Parallel D	
SESSION 7d: Skin, pulmonary & skeletal diseases	
<i>Chairs: Uta Griesenbach, Imperial College London; Fernando Larcher, Department of Bioengineering, UC3M, Madrid</i>	
08:30 Matthias Titeux, Institut Imagine	
INV43: Splice modulation strategies using antisense oligonucleotides for Recessive Dystrophic Epidermolysis Bullosa	
09:00 Fleur van Dijk, London North West Healthcare University NHS Trust	
INV44: Repair of fragile tissues: a clinical genetic perspective on the issues	
09:30 Daniel Anderson, MIT	
INV45: Nucleic Acid Delivery Systems for RNA Therapy and Genome Editing	
10:00 Annahita Keravala, Genascence	
OR062: Twelve-month safety, tolerability, and pharmacodynamics data from DONATELLO: A Phase 1b trial of locally administered AAV-mediated anti-interleukin-1 gene therapy in subjects with knee osteoarthritis	
10:15 Sebastian Aguirre Kozlouski, Carbon biosciences	
OR063: CGT-001; A recombinant human bocavirus vector overcoming challenges observed with existing gene therapy approaches to efficiently deliver therapeutic levels of CFTR	
10:30-11:00 · Pavilion 2	
COFFEE BREAK	
11:00-13:15 · PLENARY · Auditorium	
SESSION 8: Presidential symposium	
<i>Chairs: Alberto Auricchio, Tigem, Naples; Paula Rio, Ciemat/CIBERER/IIS-Fundación Jiménez Díaz, Madrid; JuanJose Toledo Aral, Universidad de Sevilla</i>	
11:00 Alberto Auricchio, Tigem, Naples	
INV46: Presidential address	
11:15 Juan Carlos Ispizua Belmonte, Altos Labs, San Diego Institute of Science	
INV47: Restoring Cell Health and Reversing Disease by Cellular Rejuvenation	
11:45 OUTSTANDING ACHIEVEMENT AWARD	
Juan Bueren, Ciemat Madrid	
INV48: Gene Therapy for patients with Fanconi anemia: A stem cell disease	
12:15 YOUNG INVESTIGATOR AWARD	
Gabriele Casirati, Boston Children's Hospital/Dana Farber Cancer Institute	
OR064: Epitope engineering to enhance cancer immunotherapy, gene therapy and beyond	
12:30 CAREER PROGRESSION AWARD	
Michela Milani, SR-Tiget, Milan	
OR065: In vivo lentiviral vector gene transfer into hematopoietic stem and progenitor cells	
12:45 Ivana Trapani, TIGEM, Naples	
OR066: Advancing AAV-based gene therapy for inherited retinal disorders due to mutations in large genes.	
Presentation of the ESGCT Breakthrough of the Year Award supported by the Fresenius Foundation	
13:00-13:15 · Auditorium	
ESGCT AGM	
13:00-14:00 · Pavilion 2	
LUNCH	
13:30-14:30 · Room Parallel A	
LUNCHTIME SYMPOSIUM: Manuscript submission, review & publishing process from a journal's perspective and alternative career paths in journal editing and scientific publishing	
13:30 Kevin Davies, The CRISPR Journal, GEN Biotechnology	
13:45 Joshua Varley-Reeves, eBioMedicine, Lancet	
14:00 Thomas Gallagher, Human Gene Therapy	
Panel discussion	
13:30-14:30 · Room Parallel B	
LUNCHTIME SYMPOSIUM: Merck - To 1000L and beyond: Innovating Upstream AAV manufacturing for the next wave of gene therapies	
13:30 Fletcher Malcom, Director of Strategy, Product and Business Development	
13:30-14:30 · Room Parallel D	
LUNCHTIME SYMPOSIUM: MaxCyte - Scalable, Non-Viral Technologies in Action from Concept to Clinic	
<i>Chairs: Alicia Roig-Merino, Regional Manager, FAS Field Support - Europe, MaxCyte Inc.</i>	
13:30 Elena Stoyanova, PhD, Principal Scientist, Touchlight - London, United Kingdom	
13:50 Richard Harbottle, PhD, Head of DNA Vector Research, German Cancer Research Centre (DKFZ) - Heidelberg, Germany	
14:10 Begoña Diez Cabezas, PhD, Researcher CIEMAT/CIBERER/IIS-FJDager at CliniStem (GMP facility) - Madrid, Spain	
14:00-15:30 · Fibes 2	
POSTER SESSION	
Even Poster numbers (P0002, P0004, P0006 etc)	



THURSDAY 9 OCTOBER

15:30-17:30 · PARALLEL · Room Parallel A

SESSION 9a: Gene Editing II, Ex vivo applicationsChairs: **Angelo Lombardo**, *SR-Tiget, Milan*; **Sean Chen**, *Mammoth Biosciences, Brisbane***15:30 Marianne Carlon**, *KU Leuven***INV49:** Innovative in vitro and ex vivo organoid and lung models support base and prime editing studies to re-write drug-refractory CFTR mutations**16:00 Melissa Bonner**, *nChroma***INV50:** In Vivo Epigenetic Silencing is Poised to DLVR**16:30 Sean Chen**, *Mammoth Biosciences***OR067:** Highly efficient lowering of serum APOC3 and triglyceride levels using an engineered CasPhi nuclease in NHPs and a mouse model of severe hypertriglyceridemia as basis for treatment of persistent chylomicronemia in humans**16:45 Yannick Doyon**, *Laval University***OR068:** In vivo editing of the transferrin locus for systemic correction of lysosomal storage diseases**17:00 Linda Burkly**, *Editas Medicine, Inc***OR069:** A transformative LDL cholesterol--lowering in vivo CRISPR gene editing medicine that functionally upregulates LDLR in mice and non-human primates**17:15 Chiara Simoni**, *SR-Tiget, Milan***OR070:** Development of in vivo genome editing for the treatment of progressive familial intrahepatic cholestasis type 2

15:30-17:30 · PARALLEL · Room Parallel B

SESSION 9b: AAVs/Non integrative vectors II : Mechanism & biologyChairs: **Isabelle Richard**, *Genethon*; **Dirk Grimm**, *University of Heidelberg***15:30 Li-An Brown**, *University College London***INV51:** Insights into AAV-related hepatitis**16:00 Aravind Asokan**, *Duke University School of Medicine***INV52:** Unlocking AAV Biology to Engineer Vector Safety**16:30 Pedram Moeini**, *Center for Applied Medical Research (CIMA), University of Navarra, Pamplona***OR071:** High-dose AAV9.CBA.SMN1 administration triggers liver damage, cell-type remodeling and UPR activation in non-human primates but not in adult rodents**16:45 Izabela Kraszevska**, *King's College London***OR072:** Small non-coding RNA adjuvants that improve cardiac transduction by AAV vectors**17:00 Saqlain Suleman**, *Anglia Ruskin University***OR073:** AAV tethering to the genome is associated with transcription factor binding sites found in genes that favour viral integration**17:15 Ines Akrouf**, *Myologie Institute, Sorbonne University, Paris***OR074:** Efficacy of AAV vectors and optimization of therapies in mouse models of Duchenne muscular dystrophy and Dynamin 2-related dominant centronuclear myopathy

15:30-17:30 · PARALLEL · Room Parallel C

SESSION 9c: Immunotherapy & CAR T cells IIChairs: **Karl Petri**, *University Hospital Würzburg*; **Dimitrios Wagner**, *Baylor College of Medicine, Houston***15:30 Caroline Arber**, *UNIL, Lausanne***INV53:** Leveraging protein design for CAR-T cell engineering**16:00 Yvonne Chen**, *UCLA, Los Angeles***INV54:** Engineering Multi-Pronged CAR-T Cell Therapy for Cancer**16:30 Alba Rodriguez-Garcia**, *IDIBAPS, Barcelona***OR075:** Lipid nanoparticle-mediated DNA delivery triggers CD8+ T cell-dependent antitumor immunity and enhances PD-L1 blockade in mouse models of hepatocellular carcinoma**16:45 David Rawlings**, *University of Washington***OR076:** CD19 CAR-Engineered Regulatory T Cells Suppress T And B Cell Driven Autoimmunity and Confer Durable Therapeutic Benefit in Mouse Models Of SLE**17:00 Paula Barba**, *IDIBAPS, Barcelona***OR077:** In vivo-based CRISPR screen identifies ZC3H12C as a mediator of CAR-T cell dysfunction in solid tumors**17:15 Eliana Ruggiero**, *IRCCS San Raffaele Scientific Institute, Milan***OR078:** Acute myeloid leukemia eradication with TCR-redirected T cells targeting Cathepsin G antigen

THURSDAY 9 OCTOBER	
15:30-17:30 · PARALLEL · Room Parallel D	SESSION 9d: Accessibility of gene therapy <i>Chairs: Alessandro Aiuti, SR-Tiget, Milan; Claire Booth, UCL Institute of Child Health</i> 15:30 Terry Flotte, University of Massachusetts INV55: Overcoming Barriers to Commercially Pre-Viable Gene and Cell Therapies for Rare and Ultra-Rare Diseases 15:55 Karen Oprych, Great Ormond Street Hospital, London INV56: Not-for-profit manufacture and supply of economically challenging ATMPs for rare diseases. 16:20 Janet Glassford, MHRA INV57: MHRA's progressive strategy for rare disease 16:45 recording of Jennifer Adair, University of Massachusetts INV58: 17:10 Stefano Benvenuti, Telethon Foundation INV59: Fondazione Telethon current strategies and future perspectives on patient access to gene therapy for ultra-rare disease
17:30-18:00 · Pavilion 2	COFFEE BREAK
18:00-19:30 · PARALLEL · Room Parallel A	SESSION 10a: Manufacturing II: Cell therapies <i>Chairs: Hanna Lesch, Independent Expert - Advanced Therapies; Ander Izeta, Biogipuzkoa Health Research Institute, San Sebastian</i> 18:00 Jan Schrooten, Antleron INV60: Digital twin-driven fixed-bed bioreactor platform for scalable manufacturing of viral vectors and virus-like particles: translation from lab towards patient 18:20 Ruiz Astigarraga, Galapagos BV INV61: The Galapagos Decentralized Cell Therapy Manufacturing Platform 18:40 Justin Lieveense, BioTherapeutics Unit, Netherlands Cancer Institute OR079: Platform-based manufacturing of tumor-infiltrating lymphocyte medicinal products for treating solid tumors 18:55 Lasse Saaby, Bioneer A/S OR080: Mapping thermophysical dynamics of cell-based formulations during cryopreservation 19:10 Paula Marcus, Cytiva OR081: Large-scale transfection of T cells in a Xuri™ cell expansion system W25 using LNPs
18:00-19:30 · PARALLEL · Room Parallel B	SESSION 10b: Bleeding disorders <i>Chairs: Thierry VandenDriessche, VUBrussels; Antonia Follenzi, Università del Piemonte Orientale</i> 18:00 Lindsey George, University of Pennsylvania School of Medicine INV62: Next Generation Hemophilia A Gene Therapy 18:30 Graham Foster, Queens University, London INV63: Liver related problems with gene therapy – what can we do to mitigate them? 19:00 Paula Sureda Horrach, Tigem, Naples OR082: Homology-independent targeted integration in a humanised mouse model of Haemophilia A 19:15 Nathalie Jansen, CSL Behring OR083: Sustained disease correction is achieved without long-term vector-related liver toxicity four years after etranacogene dezaparvovec hemophilia gene therapy both in individuals with and without early transaminitis
18:00-19:30 · PARALLEL · Room Parallel C	SESSION 10c: National initiatives in gene & cell therapy <i>Chairs: Zoltan Ivics, University of Leipzig/Fraunhofer Institute IZI</i> <i>5 minutes presentations on the initiatives in different countries</i> INV64: Christian Gallus, Berlin Institute of Health at Charité, Berlin INV65: Stefano Benvenuti, Telethon Foundation, Milan INV66: Manel Juan, Coordinator of the TERAplus network, Spain INV67: Emmanuel Dequier, Minsitry of Research, France INV68: Jeannette Evans, Catapult, UK Panel discussion & round table

THURSDAY 9 OCTOBER	
18:00-19:30 · PARALLEL · Room Parallel D SESSION 10d: Late breaking news from the clinic <i>Chairs: Fatima Bosch UAB, Barcelona, Nathalie Cartier</i> 18:00 Olivier Danos, RegenX INV70: RGX-202, an investigational gene therapy for the treatment of Duchenne muscular dystrophy: interim clinical data 18:30 Francesco Testa Università degli studi della Campania Luigi Vanvitelli INV71: LUCE: Phase I/II Trial of Dual AAV Gene Therapy for Retinitis Pigmentosa in Usher Syndrome Type 1B 19:00 Samik Basu, Cabaletta Bio OR084: RESET-PV: Initial clinical and translational data evaluating rese-cel (resecabtagene autoleucel), an autologous 4-1BBz CD19-CAR T cell therapy, without preconditioning, in pemphigus vulgaris 19:15 Arnaud Valent, Genethon OR085: GNT0004, Genethon's AAV-based gene therapy for Duchenne muscular dystrophy: long-term follow-up of ambulatory boys enrolled in the dose-escalation phase of GNT-016-MDYF	 A Regent Cell & Gene Therapy Platform Company
19:30 BUSES DEPART TO Molecular Mingle 20:30 · Hacienda las Azaharas MOLECULAR MINGLE	

FRIDAY 10 OCTOBER	
08:30-09:00 · Registration Foyer	REGISTRATION
09:00-10:30 · PARALLEL · Room Parallel A	SESSION 11a: Metabolic diseases II <i>Chairs: Giuseppe Ronzitti, Genethon; Nicola Brunetti-Pieri, Tigem, Naples</i> 09:00 Paul Gissen, University College London INV72: AAV-mediated gene therapy for OTC deficiency 09:30 Rob Wynn, Manchester University INV73: Hematopoietic stem cell and stem cell gene therapy in metabolic diseases 10:00 Jeremy Do Cao, Antoine-Béclère Hospital, APHP OR086: Overcoming AAV8 Immunity: First Seropositive Crigler-Najjar Patient Treated with GNT0003 Following Imlifidase Pretreatment (GNT-018-IDES clinical trial) 10:15 Maria Battipaglia, Tigem, Naples OR087: Modulation of TRPML1/TFEB pathway for the treatment of Wilson Disease
09:00-10:30 · PARALLEL · Room Parallel B	SESSION 11b: AAVs/Non integrative vectors III: Translation <i>Chairs: Ivana Trapani, Tigem, Naples; Gloria Gonzalez- Aseguinolaza, CIMA, University of Navarra</i> 09:00 James Wilson, Gemma Bio INV74: Lessons learned from 35 years of in vivo gene therapy research 09:30 Jonathan Schwartz, Rocket Pharma INV75: Transformative Treatment of Devastating Cardiomyopathies: Safety and Efficacy in AAV Clinical Development of RP-A501 (Danon Disease) and RP-A601 (PKP2-ACM) 10:00 Lorenzo D'Antiga, Hospital Papa Giovanni XXIII, Bergamo OR088: Durability of AAV-based gene therapy in patients with Crigler Najjar syndrome at 4 years of follow up after dosing: the GNT-012-CRIG Study 10:15 Andrea Perez Iturralde, Children's Medical Research Institute, Australia OR089: Advancing AAV9-mediated gene therapy for CTNNB1 Syndrome: safety, efficacy, and clinical translation
09:00-10:30 · PARALLEL · Room Parallel C	SESSION 11c: Immunotherapy & CAR T cells III <i>Chairs: Eliana Ruggiero, IRCCS Ospedale San Raffaele, Milan; Sonia Guedan, IDIBAPS, Barcelona</i> 09:00 Jay Daniels Northwestern, Chicago INV76: Leveraging T cell mutations for enhanced T cell therapies 09:30 Claudia Rossig, University Children's Hospital, Munster INV77: Cytokine-enhanced CAR T cells for solid tumors 10:00 Angela Covo-Vergara, Center for Applied Medical Research (CIMA), Pamplona OR090: Self-amplifying RNA vaccines to improve the performance of CAR-T cells in solid tumors 10:15 Chiara Magnani, University of Zurich OR091: Acquisition of an immunosuppressive microenvironment after CD19 CAR-T therapy is associated with T-cell dysfunction and resistance
10:30-11:00 · Pavilion 2	COFFEE BREAK
11:00-13:00 · PARALLEL · Room Parallel A	SESSION 12a: Regulatory requirements for clinical trial applications <i>Chairs: Sol Ruiz, AEMPS, Madrid; Klaus Cichutek</i> 11:00 Klaus Cichutek, INV82: ATMP achievements and role of regulators 11:20 Matthias Renner, Paul Ehrlich Institute, Langen INV83: First-in-human clinical trials: Regulatory considerations on manufacturing and control 11:40 Janet Glassford, MHRA INV84: Advancements at the MHRA to support ATMP development 12:00 Paschalia Koufokotsiou, European Commission INV85: Revision of the EU General Pharmaceutical Legislation: Impact on Advanced Therapy Medicinal Products (ATMPs). 12:20 Yeowon Sohn, Korea Food and Drug Administration INV86: Comparative analysis of regulations and studies on stem cell therapies: focusing on induced pluripotent stem cell (iPSC)-based treatments 12:40 Panel Discussion

FRIDAY 10 OCTOBER

11:00-13:00 · PARALLEL · Room Parallel B

SESSION 12b: Disease modelsChairs: *Maurilio Sampaioles, KU Leuven; Rik Gijbsers, KU Leuven***11:00 Simão José Teixeira da Rocha, University of Lisbon****INV87:** Stem-cell modeling of cerebellar dysfunction in Angelman syndrome**11:30 Xavier Trepas, Institute of bioengineering of Catalonia, Barcelona****INV88:** Engineering the immunocompetent tumour ecosystem**12:00 Clémence Lièvre, Nantes Université, CHU Nantes, INSERM, TaRGéT, (Translational Research in Gene Therapy - UMR 1089****OR092:** Engineered Muscle Tissues with enhanced maturation for the evaluation of muscle-tropic AAV vectors**12:15 Akshatha Shivaraj, Hannover Medical School****OR093:** Deciphering the role of instructive transcriptional regulators on the hemogenic endothelium during human embryonic hematopoiesis using induced pluripotent stem cells**12:30 Patrizia Tornabene, Cincinnati Children's Hospital Medical Center****OR094:** Modeling Cystic Fibrosis pancreatic complications in iPSC-derived organoids**12:45 Maria Herrera, University of Seville****OR095:** Amyotrophic Lateral Sclerosis (ALS) brain organoids as a tool for the development of nano-gene therapies

11:00-13:00 · PARALLEL · Room Parallel C

SESSION 12c: Gene Editing III: Technology & applicationsChairs: *Paula Rio, Ciemat, Madrid; Luigi Naldini, SR-Tiget, Milan***11:00 Erik Sontheimer, UMASS****INV89:** Advanced Precision Genome Editing Platforms**11:30 Anna Ceresetto, University of Trento****INV90:** From CRISPR to TnpB: Exploring the Landscape of Compact Genome Editors**12:00 Christof Fellmann, CRISPR-X, CRISPR Therapeutics****OR096:** Single-dose in-vivo gene correction of AATD via LNP-delivered SyNTase editors**12:15 Foteini Christou, King's College London****OR097:** Enhancement of homology directed repair in post-mitotic cardiomyocytes**12:30 Leah Helton, Shape Therapeutics****OR098:** Targeted Knockdown of Alpha Synuclein in the Brain Supports the Therapeutic Development of SHP-201 for Parkinson's Disease**12:45 Maria Carmina Castiello, SR-Tiget, Milan****OR099:** Preclinical advances for the translation of HDR-mediated correction of RAG1 gene in human hematopoietic stem and progenitor cells

11:00-13:00 · PARALLEL · Room Parallel D

SESSION 12d: Hematopoietic & PID IIChairs: *Lisa Ott de Bruin, Leiden University Medical Center; Michela Milani, SR-Tiget, Milan***11:00 Sandra Le Quellec, CSL Behring****INV91:** AAV-based gene therapy for haemophilia B: the way to market authorization and future clinical development**11:30 Giuliana Ferrari, SR Tiget, Milan****INV92:** Gene therapy for beta-thalassemia: towards the new academic trial**12:00 Kerstin Geiger, Institute for Transfusion Medicine and Gene Therapy and Center for Chronic Immunodeficiency (CCI), Medical Center****OR103:** Base editing restores cellular phenotype of T cells of patients with Hyper-IgE-Syndrome**12:15 Chantal Lagresle-Peyrou, UMR1163, INSERM, Paris Descartes University Sorbonne Paris Cité, Imagine Institute****OR100:** ex vivo gene therapy for Artemis deficiency: results of the French ARTEGENE phase I/II clinical trial**12:30 Piergiuseppe Quarato, SR-Tiget, Milan****OR101:** Development of an epigenome editing strategy for the treatment of β -hemoglobinopathies**12:45 Michaela Semeraro, Hôpital Necker-Enfants Malades, Paris****OR102:** From Cure to Flare: Targeting Post-Gene Therapy Inflammation in Wiskott-Aldrich syndrome

FRIDAY 10 OCTOBER	
13:00-14:30 · Pavilion 2	
LUNCH	
13:30-14:30 · Room Parallel B	
EuroGCT Lunchtime Symposium	
Policy and regulatory strategies: current and prospective impact on gene and cell therapy development	
<i>Chairs: Aurélie Mahalatchimy, Aix-Marseille University</i>	
13:30 Anna-Pia Papageorgiou, DG Research and Innovation, European Commission	
European Union policies and their impact on ATMP Research and Innovation	
13:50 Emmanuel Dequier, French Ministry of Research	
The 2022 French Strategy on biotherapies and bioproduction of advanced therapies: results after 3 years launch and perspectives	
14:10 Marcos Timon, The Spanish Agency of Medicines and Medical Devices (AEMPS)	
Support for ATMPs development in Spain: the central role of the Spanish Medicines Agency (AEMPS)	
14:30-16:30 · PLENARY · Auditorium	
SESSION 13 Closing: Stem cells: from models to therapies	
<i>Chairs: Axel Schambach, Hannover Medical School; Ricardo Pardal, University of Seville</i>	
14:30 Elizabeth Ng, Murdoch Children's Research Institute, Melbourne	
INV93: iHSCs: engrafting haematopoietic stem cells generated from induced pluripotent stem cells.	
15:00 Lorenz Studer, Memorial Sloan Kettering Cancer Center	
INV94: Developing a cell-based therapy for Parkinson's disease	
15:30 Isabel Fariñas, University of Valencia	
INV95: The regulation of adult stem cell quiescence	
16:00 Ricardo Pardal, University of Seville	
INV96: Carotid body cell therapy for Parkinson's disease	
16:30-16:45 · PLENARY · Auditorium	
Concluding remarks	
16:45-18:00 · Registration area	
Closing drinks	