

CRISPRMED25 Final Programme

- CRISPRMED25 Programme digital version – click [here](#)
- Abstract Section – click [here](#) (only visible for registrants)
- Participant Section – click [here](#) (only visible for registrants)

Monday, 07 April 2025

15:00 - 17:15	CRISPR Medicine Conference 2025 Virtual: Oral session – more details Transformative Gene Editing: From Rare Disease Models to Clinical Applications	
	Fetal gene therapy in a mouse model of Krabbe disease using virus-like particles Asma Naseem ¹ <small>¹UCL Great Ormond Street Institute of Child Health, UK</small>	ID 111
	Transforming cardiometabolic disease treatment paradigm: Advancing in vivo CRISPR-based therapies to target key dyslipidemia drivers Maria Mirotsov ¹ <small>¹Scribe Therapeutics, US</small>	ID 143
	In vivo genome editing: Translating science from bench to bedside Emma Wang ¹ <small>¹YolTech Therapeutics, China</small>	ID 131
	Achieving non-viral high-fidelity gene editing and gene insertion: updates from Poseida Therapeutics Blair Madison ¹ <small>¹Poseida Therapeutics, US</small>	ID 140
	Clinical progress of off-the-shelf CAR-T cell therapies engineered with CRISPR hybrid RNA-DNA (chRDNA) genome-editing technology Tina Albertson ¹ <small>¹Caribou Biosciences, Inc., US</small>	ID 125
17:15 - 18:00	CRISPR Medicine Conference 2025 Virtual: Poster session – more details	
	Precise Gene Writing System for CAR-T cell therapy generation Paolo Petazzi ¹ <small>¹Integra Therapeutics, Spain</small>	ID 7
	Designing and cloning of single guide RNA for green fluorescent protein Mahla Sadat Hosseini ^{1, 2} <small>¹Department of Stem Cells and Developmental Biology, Cell Science Research Centre, Royan Institute for Stem Cell Biology and Technology, ACECR, Tehran, Iran, ²Department of Basic and Population Based Studies in NCD, Reproductive Epidemiology Research Center, Royan Institute, ACECR, Tehran, Iran</small>	ID 14
	Engineering tripartite gene editing machinery for highly efficient non-viral targeted genome integration Hao Wu ¹ <small>¹Whitehead institute, US</small>	ID 34
	Cas9 mRNA and its aggregate analysis on SEC HPLC Konstantin Musyichuk ¹ <small>¹Sepax Technologies, US</small>	ID 102
	Genome-wide off-target assessment of adenine base editing: Establishing a WGS pipeline for safe gene correction Aidin Kazemizadeh ¹ <small>¹King's College London, UK</small>	ID 108

Tuesday, 08 April 2025

09:00 - 13:25	CRISPRMED25 Workshops – more details	
09:00 - 13:00	Founders' Breakfast – more details	
11:00 -	CRISPRMED25 In-Person Conference Registration Opens	
14:00 - 14:15	CRISPRMED25 Opening Address by CRISPR Medicine News	
14:15 - 15:00	Patient Voice	
	Scaling the mountain: Expanding gene therapy to underserved communities Jimi Olaghere	ID 52
15:00 - 16:00	Keynote Address	
	CRISPR-Cas: From bacterial immunity towards genome editing and beyond Virginijus Šikšnys ¹ <small>¹Vilnius University Life Sciences Centre, Lithuania</small>	ID 121
16:00 - 16:30	Coffee Break	
16:30 - 18:30	Genome Editing: From Pioneering Foundations to Modern Applications	
	Foundations of genome editing: Past, present and future Dana Carroll ¹ <small>¹University of Utah, US</small>	ID 20
	Origins and applications of genome editing Srinivasan Chandrasegaran ¹ <small>¹Johns Hopkins School of Public Health, US</small>	ID 9
	A universal CRISPR analytical platform for precision monitoring of CRISPR reagents and editing efficiency Kiana Aran ¹ <small>¹University of California San Diego, US</small>	ID 133
	From linear synthesis to ligation: Comparative insights into long nucleic acid production (sponsored) Philipp Kamm ¹ <small>¹BioSpring GmbH</small>	ID 130
18:30 - 21:00	Poster and Networking Session 1	

Wednesday, 09 April 2025

06:30 - 07:15	Fun Run in Copenhagen (sponsored by Vivlion)	
08:00 - 10:05	Clinical Implementation of Gene-Editing Therapies: Progress and Solutions	
	Refining tumor-infiltrating lymphocytes for adoptive cell therapy in solid tumors Özcan Met ^{1, 2} <small>¹National Center for Cancer Immune Therapy (CCIT-DK), Department of Oncology, Copenhagen University Hospital, Herlev, Denmark. ²Department of Health Technology, Technical University of Denmark, Lyngby, Denmark</small>	ID 120
	Paving the way to a single source for gene editing with strategic expansions (sponsored) Amanda Haas ¹ <small>¹Agilent Technologies, US</small>	ID 118
	CRISPR-directed gene editing for head and neck cancer, a patient centric approach Eric Kmiec ¹ <small>¹Gene Editing Institute at ChristianaCare, Delaware, US</small>	ID 13
	Next-generation CRISPR genome editing to combat fatal genetic diseases and extend lifespan Alvin Luk ^{2, 3} <small>¹HuidaGene Therapeutics, ²Cholgene Therapeutics, China</small>	ID 49
	Accelerating cell and gene therapy success with cGMP-compliant gene editing components (sponsored) Juliana Campo ¹ <small>¹GenScript Biotech, Netherlands</small>	ID 123
	Large scale manufacturing of a hematopoietic stem cell gene editing-based protocol for Pyruvate kinase deficiency therapy (short talk) Jose-Carlos Segovia ¹ <small>¹Cell Technology Division, Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) and Centro de Investigación Biomédica en Red de Enfermedades Raras (CIBERER); Unidad Mixta de Terapias Avanzadas. Instituto de Investigación Sanitaria Fundación Jiménez Díaz (IIS-FJD, UAM), Madrid, Spain</small>	ID 27
	PathCrisp and EdiCrisp: CRISPR-powered innovations for enhanced diagnostics and therapeutics (short talk) BS Kruthika ^{1, 2} <small>¹Crisprbits Private limited, ²Crisprbits laboratory</small>	ID 54
10:05 - 10:30	Coffee Break	
10:30 - 12:00	Beyond Conventional CRISPR-Based Genome Editing	
	CRISPR/Cas transcriptional gene regulation in hematopoietic cells Rasmus Bak ¹ <small>¹Department of Biomedicine, Aarhus University, Denmark</small>	ID 114
	RNA base editing with endogenous ADAR Thorsten Stafforst ¹ <small>¹Interfaculty Institute of Biochemistry; University of Tübingen, Germany Gene and RNA Therapy Center, University Hospital, Faculty of Medicine, Tübingen, Germany</small>	ID 11
	Decoding the molecular mechanisms of CRISPR-associated transposons to reset genome engineering Guillermo Montoya ¹ <small>¹University of Copenhagen, Denmark</small>	ID 135
	Improving CRISPR base editing efficiency prediction through data generation and deep learning (short talk) Ying Sun ³ <small>¹Center for non-coding RNA in Technology and Health, Department of Veterinary and Animal Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Frederiksberg, Denmark</small>	ID 76
	Efficient genome editing using 'NanoMEDIC' AsCas12a-VLPs produced with Pol II-transcribed crRNA (short talk) Natalia Kruglova ¹ <small>¹Center for Precision Genome Editing and Genetic Technologies for Biomedicine, Institute of Gene Biology Russian Academy of Sciences, 119334 Moscow, Russia.</small>	ID 32
12:00 - 13:00	Panel Discussion: Patient Access to CRISPR Medicine – More details	
13:00 - 13:45	Lunch	
13:45 - 15:45	Understanding the Outcomes of Genome Editing	
	Single-cell profiling of genome-editing alterations and functional outcomes in CRISPR-engineered cells Ayal Hendel ¹ <small>¹Bar Ilan University, Israel</small>	ID 117
	Evolving solutions for effective genotoxicity assessment in CRISPR-based editing (sponsored) Ashley Jacobi ¹ <small>¹Integrated DNA Technologies, US</small>	ID 97

	Genome editing with AZD7648 induces large-scale genomic alterations Gregoire Cullot ³ <small>³Department of Biology, Institute of Molecular Health Sciences, ETH Zurich, Zurich, Switzerland</small>	ID 24
	Precision genotyping tools for gene editing analysis and characterization (sponsored) Iván Hernández-Neuta ¹ <small>¹Countagen AB, Sweden</small>	ID 142
	Modelling CRISPR-Cas9 kinetics reveals recurrent cleavage, precise repair, and chromosomal aberration dynamics (short talk) Alexander Chalk ¹ <small>¹AstraZeneca, Sweden</small>	ID 81
	INDUCE-seq®: Ensuring the safe development of cell and gene therapies by gene editing (sponsored) Simon Reed ¹ <small>¹Broken String Biosciences, UK</small>	ID 113
	Cell-type and time-resolved genotoxicity of base editing (short talk) Sandra Ammann ² <small>²Institute for Transfusion Medicine and Gene Therapy, Medical Center - University of Freiburg, Freiburg, Germany</small>	ID 90
15:45 - 16:45	Panel Discussion: Navigating Regulatory Pathways for CRISPR Medicine – More details	
16:45 - 17:15	Coffee Break	
17:15 - 19:00	Functional Genomics - In Vivo and In Vitro CRISPR Screens	
	Dissecting intracellular signaling with base editor screens Jakob Nilsson ¹ <small>¹Danish Cancer Institute, Denmark</small>	ID 58
	Targeting tumor specific copy number alterations using CRISPR-Kill Rob Wolthuis ¹ <small>¹Amsterdam UMC, Netherlands</small>	ID 60
	Revealing neuronal vulnerabilities with direct in vivo AAV-mediated CRISPR screens Alessio Strano ¹ <small>¹Department of Biosystems Science and Engineering, ETH Zurich, 4056 Basel, Switzerland</small>	ID 39
	The next frontier in functional genomics: design, execution and analysis of combinatorial CRISPR screens (sponsored) Manuel Kaulich ¹ <small>¹Vivlion GmbH and Goethe University Frankfurt, Germany</small>	ID 128
	CRISPR-based functional genomics for AAV production (short talk) Alessandra Recchia ¹ <small>¹University of Modena and Reggio Emilia, Italy</small>	ID 50
19:00 - 21:00	Exhibitor Evening	

Thursday, 10 April 2025

06:30 - 07:15	Fun Run in Copenhagen	
08:00 - 10:00	Advances in Gene-Edited Cell Therapies	
	Novel editing approaches to beta-hemoglobinopathies Annarita Miccio ¹ <small>¹Imagine Institute, France</small>	ID 62
	Genome editing by homology directed repair (HDR) to create stem cell based drugs Matthew Porteus MD, PhD ¹ <small>¹Sutardja Chuk Professor of Definitive and Curative Medicine Department of Pediatrics Institute of Stem Cell Biology and Regenerative Medicine Stanford University, US</small>	ID 116
	Mechanistic insights to further advance gene and cell therapy applications Raffaella Di Micco ¹ <small>¹SR-TIGET, Italy</small>	ID 46
	Fuelling cancer immunotherapy through gene editing Karim Benabdellah ¹ <small>¹Genyo, Spain</small>	ID 141
	Circularization of single-stranded DNA improves TALEN-mediated gene insertion in long term HSC and in primary T cells (short talk) Julien Valton ¹ <small>¹Cellectis SA, France</small>	ID 3
	Assessing the safety and applicability of transient p38 inhibition in genome editing protocols for hematopoietic stem and progenitor cells (short talk) Roberta Vacca ^{1, 2} <small>¹San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), IRCCS San Raffaele Scientific Institute, 20132, Milan, Italy, ²Vita-Salute San Raffaele University, 20132, Milan, Italy, Italy</small>	ID 71
10:00 - 10:25	Coffee Break	
10:25 - 12:15	In Vivo Gene Editing For the Treatment of Rare Diseases	
	In vivo gene editing for the treatment of metabolic diseases Alessia Cavazza ^{1, 2} <small>¹Molecular and Cellular Immunology section, Department of Infection, Immunity & Inflammation, UCL Great Ormond Street Institute of Child Health, University College London, 20 Guilford Street, WC1N 1DZ, London, UK, ²Department of Medical and Surgical Sciences for Children and Adults, University of Modena and Reggio Emilia School of Medicine, Via del Pozzo 71, 41125, Modena, Italy</small>	ID 122
	Correcting genetic diseases by in vivo base- and prime editing Gerald Schwank ¹ <small>¹Institute of Pharmacology and Toxicology, University of Zurich, Switzerland</small>	ID 138
	Dual precise repair of disease-causing mutations in compound heterozygous muscular dystrophy (short talk) Helena Escobar ² <small>²Muscle Research Unit, Experimental and Clinical Research Center (ECRC), a joint cooperation between the Charité - Universitätsmedizin Berlin and the Max Delbrück Center for Molecular Medicine in the Helmholtz Association (MDC), Berlin, Germany</small>	ID 105
	Lung targeting lipid nanoparticle (LNP) delivery for cystic fibrosis (short talk) Marco S. Weinberg ¹ <small>¹ReCode Therapeutics, US</small>	ID 95
	EDSPLICE: AAV-deliverable enhanced deletion RNA-guided nucleases for therapeutic splicing modulation - applied to Usher syndrome (short talk) Salome Spaag ¹ <small>¹Institute for Ophthalmic Research, University Hospital Tübingen, Germany</small>	ID 80
	Adenine base editors as a breakthrough in advanced genetic therapy for COL6-RD (short talk) Aristides López-Márquez ¹ <small>¹Institut de Recerca Sant Joan de Deu, Spain</small>	ID 17
12:15 - 13:30	Special Session: Democratizing Genetic Medicine – More details	
	Genome engineering education and capacity building in Africa Thomas O. Auer ^{1, 2} <small>¹University of Fribourg, Department of Biology, Switzerland, ²TReND in Africa, UK Gene4All, Spain</small>	ID 137
	Equity in health and diverse genomes: Unveiling Africa's potential Segun Fatumo ¹ <small>¹Queen Mary University of London, UK</small>	ID 136
	Panel discussion: Advancing equitable access to genetic technologies in research and healthcare Vincenzo Di Donato ¹ <small>¹Gene4All</small>	ID 144

13:30 - 14:15	Lunch	
14:15 - 16:00	Innovations in Gene-Editing Delivery Systems	
	Harnessing a diverse collection of CRISPR-associated RNA-guided nucleases and a proprietary nonviral delivery platform for precise gene editing Lilian Lamech ¹ <small>¹Life Edit Therapeutics, an ElevateBio Company, US</small>	ID 77
	Development of SORT lipid nanoparticles (LNPs) for genome correction of disease-causing mutations Daniel Siegwart ¹ <small>¹University of Texas Southwestern Medical Center, US</small>	ID 48
	Engineered lentivirus-derived particles for in vivo CRISPR RNP delivery and prime editing Jacob Giehm Mikkelsen ¹ <small>¹Aarhus University, Denmark</small>	ID 115
	AI-designed protein binders for gene editor modulation and AAV retargeting Martin Pacesa ¹ <small>¹EPFL, Switzerland</small>	ID 6
	Enabling production of next-generation genetic medicines through comprehensive CRISPR manufacturing solutions (sponsored) Max Sellman ¹ <small>¹Aldevron, US</small>	ID 127
16:00 - 17:00	Special Session: The Path to the First Genome-Editing Trial – More details	
17:00 - 17:30	Coffee Break	
17:30 - 19:00	WeDoCRISPR Poster Flash Talks	
19:00 - 22:00	CRISPRMED25 Evening	

Friday, 11 April 2025

06:30 - 07:15	Fun Run in Copenhagen	
08:50 - 11:00	Technological Advances Within In Vivo Genome Editing	
	ePsCas9: A robust Cas9 with SpOT-ON precision for therapeutic genome editing Marcello Maresca ¹ <small>¹AstraZeneca, Sweden</small>	ID 132
	Genome-wide activity of a CRISPR/Cas9 system that targets collagen VI mutations Cecilia Jimenez-Mallebrera ¹ <small>¹Institut de Recerca Sant Joan de Déu. Hospital Sant Joan de Déu Barcelona, Spain</small>	ID 18
	Engineering CRISPR technologies for cardiovascular medicine Julian Grünewald ¹ <small>¹TUM, Germany</small>	ID 66
	Long-circulating lipid nanoparticles (lcLNP) effectively deliver nucleic acids to hematopoietic stem and progenitor cells in the bone marrow (short talk) Jessica Silva ² <small>²NanoVation Therapeutics</small>	ID 85
	Optimisation of advanced gene editing techniques and their application in the treatment of cardiovascular diseases (short talk) Sayari Bhunia ^{1, 2, 3} <small>¹Institute of Pharmacology, Heidelberg University, Heidelberg, Germany, ²DZHK (German Center for Cardiovascular Research), Partner Site Heidelberg/ Mannheim, Heidelberg University, Heidelberg, Germany, ³Heidelberg Biosciences International Graduate School (HBIGS), Heidelberg, Germany</small>	ID 36
	Harnessing bacteriophage vectors to deliver CRISPR tools for targeted microbiome therapies Antoine Decrulle ¹ <small>¹Eligo Bioscience, France</small>	ID 139
11:00 - 11:25	Coffee Break	
11:25 - 13:15	Functional Genomics - Discovery and Function Studies	
	Systematic surveys of synthetic lethality with the CRISPR/Cas12a IN4MER platform Travor Hart PhD ¹ <small>¹Associate Professor, Dept of Systems Biology University of Texas MD Anderson Cancer Center, US</small>	ID 12
	The effect of genetic perturbations on bioactivity across modalities James Longden ¹ <small>¹Evolvus</small>	ID 119
	A proteome-wide dependency map of protein interaction motifs (short talk) Sara M. Ambjørn ¹ <small>¹Novo Nordisk Foundation Center for Protein Research, University of Copenhagen, Denmark</small>	ID 57
	Programmable genome disruption enables selective elimination of cancer cells using a novel CRISPR-Cas nuclease (short talk) Michael Krohn ¹ <small>¹Akribion Therapeutics GmbH, Germany</small>	ID 134
	Sensitive dissection of a genomic regulatory landscape using bulk and targeted single-cell activation (short talk) Dubravka Vučićević ¹ <small>¹Computational Regulatory Genomics, Berlin Institute for Medical Systems Biology of the Max Delbrück Center for Molecular Medicine in the Helmholtz Association, Germany</small>	ID 74
	CRISPR/Cas-based approaches using iPSC-derived cardiomyocytes and heart spheroids for modelling of Duchenne muscular dystrophy (short talk) Józef Dulak ^{1, 2} <small>¹Jagiellonian University, ²Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Kraków, Poland</small>	ID 21
13:15 - 13:45	Closing Address by CRISPR Medicine News	
13:45 - 14:00	Light Refreshments OBS: The Cph Canal Trip will be 16:00 – 17:00 for delegates signed up for this social activity	