

## CRISPRMED25 Final Programme

- CRISPRMED25 Programme digital version – click [here](#)
- Abstract Section – click [here](#) (only visible for registrants)
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### Monday, 07 April 2025

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

**Tuesday, 08 April 2025**

09:00 - 13:25	<b>CRISPRMED25 Workshops – more <a href="#">details</a></b>	
09:00 - 13:00	<b>Founders' Breakfast – more <a href="#">details</a></b>	
11:00 -	<b>CRISPRMED25 In-Person Conference Registration Opens</b>	
14:00 - 14:15	<b>CRISPRMED25 Opening Address by CRISPR Medicine News</b>	
14:15 - 15:00	<b>Patient Voice</b>	
	Scaling the mountain: Expanding gene therapy to underserved communities   <b>Jimi Olaghere</b>	<a href="#">ID 52</a>
15:00 - 16:00	<b>Keynote Address</b>	
	CRISPR-Cas: From bacterial immunity towards genome editing and beyond   <b>Virginijus Šikšnys</b> <sup>1</sup> <small><sup>1</sup>Vilnius University Life Sciences Centre, Lithuania</small>	<a href="#">ID 121</a>
16:00 - 16:30	<b>Coffee Break</b>	
16:30 - 19:00	<b>Genome Editing: From Pioneering Foundations to Modern Applications</b>	
	Foundations of genome editing: Past, present and future   <b>Dana Carroll</b> <sup>1</sup> <small><sup>1</sup>University of Utah, US</small>	<a href="#">ID 20</a>
	Origins and applications of genome editing   <b>Srinivasan Chandrasegaran</b> <sup>1</sup> <small><sup>1</sup>Johns Hopkins School of Public Health, US</small>	<a href="#">ID 9</a>
	A universal CRISPR analytical platform for precision monitoring of CRISPR reagents and editing efficiency   <b>Kiana Aran</b> <sup>1</sup> <small><sup>1</sup>University of California San Diego, US</small>	<a href="#">ID 133</a>
	RNA base editing with endogenous ADAR   <b>Thorsten Stafforst</b> <sup>1</sup> <small><sup>1</sup>Interfaculty Institute of Biochemistry; University of Tübingen, Germany Gene and RNA Therapy Center, University Hospital, Faculty of Medicine, Tübingen, Germany</small>	<a href="#">ID 11</a>
	From linear synthesis to ligation: Comparative insights into long nucleic acid production (sponsored)   <b>Philipp Kamm</b> <sup>1</sup> <small><sup>1</sup>BioSpring GmbH</small>	<a href="#">ID 130</a>
19:00 - 21:00	<b>Poster and Networking Session 1</b>	

**Wednesday, 09 April 2025**

06:30 - 07:15	<b>Fun Run in Copenhagen (sponsored by Vivlion)</b>	
08:00 - 10:05	<b>Clinical Implementation of Gene-Editing Therapies: Progress and Solutions</b>	
	Refining tumor-infiltrating lymphocytes for adoptive cell therapy in solid tumors   <b>Özcan Met</b> <sup>1, 2</sup> <small><sup>1</sup>National Center for Cancer Immune Therapy (CCIT-DK), Department of Oncology, Copenhagen University Hospital, Herlev, Denmark, <sup>2</sup>Department of Health Technology, Technical University of Denmark, Lyngby, Denmark</small>	<a href="#">ID 120</a>
	Paving the way to a single source for gene editing with strategic expansions (sponsored)   <b>Amanda Haas</b> <sup>1</sup> <small><sup>1</sup>Agilent Technologies, US</small>	<a href="#">ID 118</a>
	CRISPR-directed gene editing for head and neck cancer, a patient centric approach   <b>Eric Kmiec</b> <sup>1</sup> <small><sup>1</sup>Gene Editing Institute at ChristianaCare, Delaware, US</small>	<a href="#">ID 13</a>
	Next-generation CRISPR genome editing to combat fatal genetic diseases and extend lifespan   <b>Alvin Luk</b> <sup>2, 3</sup> <small><sup>1</sup>HuidaGene Therapeutics, <sup>2</sup>Cholgene Therapeutics, China</small>	<a href="#">ID 49</a>
	Accelerating cell and gene therapy success with cGMP-compliant gene editing components (sponsored)   <b>Juliana Campo</b> <sup>1</sup> <small><sup>1</sup>GenScript Biotech, Netherlands</small>	<a href="#">ID 123</a>
	Large scale manufacturing of a hematopoietic stem cell gene editing-based protocol for Pyruvate kinase deficiency therapy (short talk)   <b>Jose-Carlos Segovia</b> <sup>1</sup> <small><sup>1</sup>Cell 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>	<a href="#">ID 27</a>
	PathCrisp and EdiCrisp: CRISPR-powered innovations for enhanced diagnostics and therapeutics (short talk)   <b>BS Kruthika</b> <sup>1, 2</sup> <small><sup>1</sup>Crisprbits Private limited, <sup>2</sup>Crisprbits laboratory</small>	<a href="#">ID 54</a>
10:05 - 10:30	<b>Coffee Break</b>	
10:30 - 11:30	<b>Panel Discussion: Patient Access to CRISPR Medicine – More <a href="#">details</a></b>	
11:30 - 12:00	<b>Beyond Conventional CRISPR-Based Genome Editing</b>	
	CRISPR/Cas transcriptional gene regulation in hematopoietic cells <b>Rasmus Bak</b> <sup>1</sup> <small><sup>1</sup>Department of Biomedicine, Aarhus University, Denmark</small>	<a href="#">ID 114</a>
	Decoding the molecular mechanisms of CRISPR-associated transposons to reset genome engineering   <b>Guillermo Montoya</b> <sup>1</sup> <small><sup>1</sup>University of Copenhagen, Denmark</small>	<a href="#">ID 135</a>
	Improving CRISPR base editing efficiency prediction through data generation and deep learning (short talk)   <b>Ying Sun</b> <sup>3</sup> <small><sup>1</sup>Center 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>	<a href="#">ID 76</a>
	Engineering a potent CRISPR-Cas12l genome editor with C-rich PAM recognition (Industry Talk) <b>Giedrius Gasiunas</b> <sup>1</sup> <small><sup>1</sup>Caszyme</small>	<a href="#">ID 75</a>
13:00 - 13:45	<b>Lunch</b>	
13:45 - 15:45	<b>Understanding the Outcomes of Genome Editing</b>	
	Single-cell profiling of genome-editing alterations and functional outcomes in CRISPR-engineered cells   <b>Ayal Hendel</b> <sup>1</sup> <small><sup>1</sup>Bar Ilan University, Israel</small>	<a href="#">ID 117</a>
	Evolving solutions for effective genotoxicity assessment in CRISPR-based editing (sponsored)   <b>Ashley Jacobi</b> <sup>1</sup> <small><sup>1</sup>Integrated DNA Technologies, US</small>	<a href="#">ID 97</a>
	Genome editing with AZD7648 induces large-scale genomic alterations   <b>Gregoire Cullot</b> <sup>3</sup> <small><sup>1</sup>Department of Biology, Institute of Molecular Health Sciences, ETH Zurich, Zurich, Switzerland</small>	<a href="#">ID 24</a>

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

Thursday, 10 April 2025

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

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

## Friday, 11 April 2025

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