



Scientific Committee

Alessia Cavazza
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Local Organizing Committee

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Alejandro Millán López
Victor Ronco Diaz
Juan Antonio Marchal
Fco. Javier Molina Estevez

Administration and Project Management

Raquel Soriano
GENyO Administrative Support Team

Day 1
(26/05/2026)

08:00–09:00 Registration and badge collection

09:00–09:25 Opening session

- **Gonzalo Balbontín** Managing Director of the Public Foundation for Health Progress and Development (Fundación Pública Progreso y Salud).
- **Dr. Indalecio Sánchez-Montesinos García** Territorial Delegate of the Regional Ministry of Health and Consumer Affairs of the Andalusian Government.
- **Dr. Marta Alarcón** Scientific Director at GENYO
- **Dr. Paula Río** Biomedical Innovation Unit, Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), Madrid, Spain. President of the Spanish Society of Gene and Cell Therapy (SETGyC).
- **Dr. Alessia Cavazza** **Co-Chair of the Action.** University College London, London, UK.
- **Dr. Karim Benabdellah** Principal Investigator at FPS GENYO. Chair of the Action.

Genome Engineering Technologies

Chairs: **Alessia Cavazza (UCL) / Karim Benabdellah (FPS)**

Reporter: **Maria Ortíz**

Time	Speaker	Title
09:30–10:05	Marcello Maresca (Keynote Lecture 1)	Artemis inhibition to maximize homology-independent primed insertion
10:05–10:40	Axel Schambach (Keynote Lecture 2)	Translating gene therapies using vectors and gene editing
10:40–11:30	Coffee Break and Poster Session	

Delivery Systems for Gene Editing (WG3)

Chairs: **Rajeevkumar Raveendran Nair (NTNU) / Duško Lainšček (NIC)**

Reporter: **Yan Yan**

Time	Speaker	Title
11:30–11:50	Cecilia Jimenez	LNP for gene editing in muscle diseases
11:50–12:10	Alessandra Recchia	Non-viral delivery of CRISPR editors
12:10–12:30	Gloria Gonzalez-Aseguinolaza	AAV genome integration in liver editing
12:30–12:50	Peng Ling	Dendrimer nanovectors
12:50–13:00	Gal Cafri	<i>Short Talk</i> – ML-driven lipid nanoparticles
13:00–13:10	Manuel Gonçalves	<i>Short Talk</i> – Selector AAV-CRISPR vectors
13:10–13:30	All Speakers+panelists	Panel discussion – In vivo and ex vivo delivery strategies
13:30–14:30	Lunch and Poster Session	

Genome Engineering: New Development Approaches (WG2)

Chairs: **Francisco Martin (UGR) / Marcello Maresca (Astrazeneca)**

Reporter: **Sandra Ammann**

Time	Speaker	Title
14:30–14:50	Julian Ceron Madrigal	<i>Cold-adapted Cas9 nucleases</i>
14:50–15:10	Sebastian Siegner	Design and dependencies of genome editing tools
15:10–15:20	Araceli Aguilar González	<i>ShortTalk A novel dual-guide CRISPR-Cas13 strategy for enhanced SNV detection</i>
15:20–15:30	Sabina Sanchez Hernandez	<i>ShortTalk-Preventing CRISPR/Cas RNP precipitation enhances multiple Cas-based modalities in human CD34+ HSPCs</i>
15:30–15:50	All Speakers + Panelists	Panel discussion
15:50–16:40	Coffee Break and Poster Session	

Training & Mobility – COST Opportunities

Chairs: **Alba Olaso/Fatma Zaher**

Reporter: **Alessandro Quattrone**

Time	Speaker (STSM Fellows)	Title (Short presentations of STSM outcomes)
16:40–16:50	Melissa Whitehead	In vitro differentiation of epigenetically edited HSCs
16:50–17:00	Sibtain Haider	Optimizing homology directed repair for precision genome editing in Fanconi anaemia: targeted enrichment of DNA effectors
17:00–17:10	Tommaso Ferrari	CRISPR-based functional genomics to improve AAV production: application 3D skeletal muscle
17:10–17:20	Merve Nur	Advanced training in CRISPR-Cas9 gene editing, gene therapy for therapeutic applications
17:20–17:30	Alba Olaso Llorca	Exploring Deep Ocean 2 (DO2 Cas9) off-target activity through CAST-Seq analysis.

Time	Speaker (VMG)	Title (VMG outcomes)
17:45–18:15	Kornel Labun/Raúl Lopez Dominguez	Online Platform Demonstration

19:00–21:00 Scientific Networking Reception

Supported by the Spanish Society of Gene and Cell Therapy (SETGyC):

Reserved exclusively for GeneHumdi members



Day 2
(27/05/2026)

Keynote Lecture

Chair: **Dr. Yonglun (AU)**

Time	Speaker	Title
08:30-09:10	Zoltan Ivics <i>(Keynote Lecture 3)</i>	Going non-viral: genetic engineering of therapeutic cells with transposon technologies

▪ Safety, Genomics & Off-Target Detection (WG4)

Chairs: **Carla Fuster/Sandra Ammann**

Reporter: **Aristides López-Márquez**

Time	Speaker	Title
09:15-09:30	Nechama Kalter	Whole-genome sequencing for safety profiling
09:30-09:45	Kornel Labun	Toolkit for precise CRISPR design
09:45-10:00	Guillaume Pavlovic	Nanopore detection of integrations
10:00-10:15	Jan Gorodkin	Computational design of gRNA for CRISPR-based studies
10:15-10:25	Alicia Roig-Merino	SeQure the win: off-target risk assessment for ATMPs in Europe
10:25-10:50	All Speakers + Panelists	Discussion guided by Giandomenico Turchiano (AstraZeneca)
10:50-11:15	Coffee break and Poster Session	

▪ Clinical Applications of Gene Editing (WG5)

Chairs: **Alessia Cavazza (UCL)/Paula Rio (CIEMAT)**

Reporter: **Juan Roberto Rodriguez**

Time	Speaker	Title
11:15-11:30	Mario Amendola	Gene editing for Duchenne muscular dystrophy
11:30-11:45	Cristina Maccalli	Multidimensional genomic characterization of off-the-shelf CD19 CAR-T cells from umbilical cord blood demonstrates robust anti-tumor activity and low toxicity risk
11:45-12:00	Erden Atilla	Engineering controlled power: combinatorial antigen targeting and cytokine armoring in CARs for AML
12:00-12:15	Jose Carlos Segovia	HDR-based editing for inherited anemias
12:15-12:30	Elena Torres (Miltenyi)	Industry Talk-Standardizing gene edited cell therapies for translational applications
12:30-12:40	Ignacio P.de Castro	<i>Short Talk</i> -LMNA muscular dystrophy
12:40-13:05	All Speakers + Panelists	Discussion guided by Alessia Cavazza and Paula Rio
13:05-14:00	Lunch Break and Poster Session	

▪ **Regulation, Access & Societal Impact (WG6)**

Chairs: **Carsten Werner Lederer/Zoltan Ivics**

Reporter: **Serif Senturk**

Time	Speaker	Title
14:00-14:15	Carsten Werner Lederer	Safety and equity in advanced therapy applications
14:15-14:30	Emmely de Vries (🇳🇱)	Regulatory aspects of ATMP development and marketing authorization (TBC)
14:30-14:45	Viviana Giannuzzi	Genome editing therapies for children
14:45-15:00	Vincenzo Di Donato	Democratizing the use of genome engineering technologies
15:00-15:30	All Speakers + Panelists	Panel discussion
15:30-16:15	Networking Coffee and Poster Session	

Networking and Scientific Exchange – Visit to the Alhambra

16:15-19:30

- Bus pickup outside the meeting venue at 16:15
- Please bring a valid form of ID for access to the Alhambra at 17:00

Day 3
(28/05/2026)

GenE-HumDi Collaboration & Network Forum

Chairs: **Alessia Cavazza/Karim Benabdellah**

Reporter: **Joanna Vella**

Time	Speaker	Title
09:00-09:15	Action Chairs	Progress and impact of GenE-HumDi
09:15-10:15	Working Group Leaders Francisco Martin (WG2) Duško Lainšček (WG3) Carla Fuster (WG4) Alessia Cavazza (WG5) Carsten Werner Lederer (WG6) Javier Molina (WG7)	Achievements and future priorities
Industrial Approaches to CRISPR Therapeutics		
10:15-10:30	Jennifer Stott (IDT)	From Target Discovery to Treatment: How IDT is Enabling CRISPR Medicine
10:30-11:30	Coffee Break and Poster Session	
11:30-12:30	Selected partners	Collaborative Projects and Success Stories Emerging from COST Networking
12:30-13:00	Action Chairs	Closing Remarks – Key takeaways and next steps
13:00-14:00	—	Lunch

COST Governance

Reporter: **Raquel Soriano Martínez (GHM)**

Time	Speaker	Title
14:00-17:00	Management Committee	Management Committee Meeting

20:00-22:30

Gala Dinner – Carmen de la Victoria (Traditional Andalusian dinner overlooking the Alhambra) (*Each participant will cover their own dinner expenses*)

We would like to express our sincere gratitude for the support shown by

