



Day 1
(26/05/2026)

09:00–09:30 Opening session (Scientific director/Chair/CoChair)

Genome Engineering Technologies

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

Reporter: TBA

Time	Speaker	Title
09:40–10:20	Marcello Maresca	Artemis inhibition to maximize homology-independent primed insertion
10:20–10:40	Axel Schambach	Translating gene therapies using vectors and gene editing
10:40–11:00	—	Coffee Break and Poster Session

Delivery Systems for Gene Editing (WG3)

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

Reporter: TBA

Time	Speaker	Title
11:00–11:20	Cecilia Jimenez	LNP for gene editing in muscle diseases
11:20–11:40	Alessandra Recchia	Non-viral delivery of CRISPR editors
11:40–12:00	Gloria Gonzalez-Aseguinolaza	AAV genome integration in liver editing
12:00–12:12	Gal Cafri	Short Talk – ML-driven lipid nanoparticles
12:12–12:24	Peng Ling	Short Talk – Dendrimer nanovectors
12:24–12:36	Manuel Gonçalves	Short Talk – Selector AAV-CRISPR vectors
12:36–13:00	All Speakers+panelists	Panel discussion
13:00–14:00	—	Lunch and Poster Session

Genome Engineering: New Development Approaches (WG2)

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

Reporter: TBA

Time	Speaker	Title
14:00–14:20	Julian Ceron Madrigal	<i>Cold-adapted Cas9 nucleases</i>
14:20–14:40	Sebastian Siegner	<i>Title to be announced</i>
14:40–15:00	Araceli Aguilar González	<i>A Novel Dual-guide CRISPR–Cas13 Strategy for Enhanced SNV Detection</i>
15:00–15:20	Jennifer Stott (IDT)	From Target Discovery to Treatment: How IDT is Enabling CRISPR Medicine
15:20–15:40	Sabina Sanchez Hernandez	Preventing CRISPR/Cas RNP precipitation enhances multiple Cas-based modalities in human CD34 ⁺ HSPCs.
15:40–16:00	All Speakers + panelists	Panel discussion

	—	Coffee Break and Poster Session
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Training & Mobility – COST Opportunities

Chairs: **Alba Olaso/Fatma Zaher**

Reporter: **TBA**

Time	Speaker (STSM Fellows)	Title (Short presentations of STSM outcomes)
16:00–17:00		
10 min	TBD	TBD
10 min	Melissa Whitehead	In vitro differentiation of epigenetically edited HSCs
10 min	Sibtain Haider	Optimizing Homology Directed Repair for Precision genome editing in Fanconi Anaemia: Targeted enrichment of DNA effectors
10 min	Tommaso Ferrari	CRISPR-based functional genomics to improve AAV production: application 3D skeletal muscle
10 min	Merve Nur	Advanced training in CRISPR-Cas9 gene editing, gene therapy for therapeutic applications
10 min	Alba Olaso Llorca	Exploring Deep Ocean 2 (DO2 Cas9) off-target activity thorough CAST-Seq analysis.

19:00–21:00 Welcome Reception

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



Day 2 (27/05/2026)

Keynote Lecture

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

Time	Speaker	Title
09:10–09:40	Zoltan Ivics	Going non-viral: Genetic engineering of therapeutic cells with transposon technologies

Safety, Genomics & Off-Target Detection (WG4)

Chairs: **Carla Fuster/Sandra Ammann**

Reporter: **TBA**

Time	Speaker	Title
09:40–09:55	Nechama Kalter	Whole-genome sequencing for safety profiling
09:55–10:10	Kornel Labun	Toolkit for precise CRISPR design
10:10–10:25	Guillaume Pavlovic	Nanopore detection of integrations
10:25–10:40	Jan Gorodkin	Computational design of gRNA for CRISPR-based studies
10:40–11:15	Alicia Roig-Merino (Maxcyte)	<i>Title to be announced</i>
11:00–11:00	All Speakers + panelists	Discussion guided by Giandomenico Turchiano (AstraZeneca)
11:00–11:20	—	Coffee Break and Poster Session

Clinical Applications of Gene Editing (WG5)

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

Reporter: **TBA**

Time	Speaker	Title
11:20–11:40	Mario Amendola	Gene editing for Duchenne muscular dystrophy
11:40–12:00	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
12:00–12:20	Erden Atilla	Engineering Controlled Power: Combinatorial Antigen Targeting and Cytokine Armoring in CARs for AML
12:20–12:40	Jose Carlos Segovia	HDR-based editing for inherited anemias
12:40–12:55	TBD/ Miltenyi	Standardizing gene edited cell therapies for translational applications

12:40–12:55	Ignacio Perez de Castro	Short Talk – LMNA muscular dystrophy
12:55–13:00	All Speakers+panelists	Discussion
13:00–14:00	—	Lunch and Poster Session

Regulation, Access & Societal Impact (WG6)

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

Reporter: **TBA**

Time	Speaker	Title
14:00–14:20	Carsten Werner Lederer	Safety and equity in advanced therapy applications
14:20–14:40	Viviana Giannuzzi	Genome editing therapies for children
14:40–14:55	Thomas Auer	<i>Title to be announced</i>
14:55–15:15	Fco Javier Molina	<i>Title to be announced</i>
15:15–15:35	¿Vincenzo Di Donato?	Bridging genomics between Europe and Africa
15:35–15:50	Patrick Celis/Ilona Reich-Kok	Upcoming Changes to Genome Editing Regulation and its Governance in the EU (TBC)
15: 50–16:10	All Speakers + panelists	Panel discussion

17:00–19:30 Networking & Scientific Exchange – Visit to the Alhambra

Day 3
(28/05/2026)

GenE-HumDi Collaboration & Network Forum

Chairs: **Alessia Cavazza/Karim Benabdellah**

Reporter: **TBA**

Time	Speaker	Title
09:00–09:15	Action Chairs	Progress and impact of GenE-HumDi
09:15–10:15	Working Group Leaders	Achievements and future priorities
10:15–10:30	Interactive discussion	Identifying collaboration opportunities
10:30–11:00	—	Coffee Break and Poster Session
11:00–11:30	Selected partners	Projects emerging from collaborations
11:30–12:40	Open floor	Short pitches for new collaborations
12:40–13:00	Action Chair	Key takeaways and next steps
13:00–14:00	—	Lunch and Poster Session

COST Governance

Reporter: **TBA**

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

