

ESGCT SPRING SCHOOL

BUDAPEST | 16-19 APRIL 2024

TUESDAY 16 APRIL

15:00-16:00	Registration
16:00-18:30	<p>Workshops (40 students per workshop)</p> <p>Workshop 1: Connecting Science and Society: Communicating your work beyond the lab Anna Couturier, <i>EuroGCT</i></p> <p>Workshop 2: How to write a scientific manuscript Thomas Gallagher, <i>Human Gene Therapy</i></p> <p>Workshop 3: How to judge a scientific publication Hildegard Büning, <i>Hannover Medical School</i></p>
19:30	<p>Meet the expert dinner @ Araz Restaurant, Continental Hotel H-1074 Budapest, Dohány utca 42-44.</p>

WEDNESDAY 17 APRIL

08:30-09:00	<p>Welcome Address</p> <p>Juan Bueren, <i>President, ESGCT</i></p> <p>Zoltan Ivics, <i>Spring School Host and co-organiser; President elect DG-GT</i></p> <p>Hildegard Büning, <i>ESGCT Education & Training</i></p>
09:00-10:00	<p>Keynote</p> <p>INV01: Juan Bueren, <i>Ciemat Madrid</i> Moving from concept to clinical reality</p>
10:00-11:30	<p>Session 1: Gene therapy tools - insights by experts (viral vectors)</p> <p>INV02: Axel Schambach, <i>Hannover Medical School</i> What you should know about retro/lentiviral vector design</p> <p>INV03: Els Verhoeyen, <i>University of Nice</i> How to improve nature I – the next generation of lentiviral vectors</p> <p>INV04: Jacob Giehm Mikkelsen, <i>Aarhus, Denmark</i> Engineered lentivirus-derived particles for delivery of gene editing tool kits</p>
11:30-12:00	Coffee Break

12:00-13:00	Keynote INV05: Fulvio Mavilio , <i>Orchard Therapeutics</i> Hematopoietic stem cell gene therapy for genetic diseases
13:00-14:00	Lunch
14:00-17:00	Session 2: Gene therapy tools - insights by experts (viral vectors) INV06: Hildegard Büning , <i>Hannover Medical School</i> Almost a virus – the adeno-associated virus (AAV) vector system vector design INV07: Alberto Auricchio , <i>Tigem Naples</i> ExpEditing AAV gene therapy INV08: Luk Vandenberghe , <i>Harvard Medical School</i> AAV as a vaccine platform
17:00-17:30	Coffee Break
17:30-19:30	Session 3: Gene therapy tools - insights by experts (non-viral vectors) INV10: Tristan Montier , <i>University of Brest</i> How to fine tune nanoparticles for aerosol delivery INV11: Raymond Schiffelers , <i>UMC Utrecht</i> Lipid nanoparticles and their applications in vaccination and beyond INV12: Zoltan Ivics , <i>Paul Ehrlich Institute, Langen</i> Wide awake and ready to move: non-viral genome engineering with Sleeping Beauty transposon vectors
19:45	Dinner at Ruin Bar Extra with DJ and surprise

THURSDAY 18 APRIL

09:00-10:00	Keynote INV13: Toni Cathomen , <i>University Hospital, Freiburg</i> Revelations in Precision: Learning from on- & off-target effects of gene editing tools
10:00-10:30	Coffee Break
10:30-12:30	Session 4: Genome and epigenome editing INV14: Paula Rio , <i>Ciemat Madrid</i> Gene editing with CRISPR and beyond INV15: Claudio Mussolino , <i>University of Freiburg</i> Multiplexed epigenome editing in CAR T cells INV16: Gloria Gonzalez-Aseguinolaza , <i>Fima, Pamplona</i> AAV for in vivo gene editing to treat rare liver diseases

12:30-13:30	Lunch
13:30-15:30	<p>Session 5: iPSC technology</p> <p>INV17: Agota Apati, <i>Research Centre for Natural Sciences, Budapest</i> Advancements in induced pluripotent stem (iPS) technology and two-dimensional disease models</p> <p>INV18: Kornelia Szebenyi, <i>Research Centre for Natural Sciences, Budapest</i> Human induced pluripotent stem cell-derived organoids for disease modelling</p> <p>INV19: Andras Nagy, <i>Lunenfeld-Tanenbaum Research Institute, Toronto</i> Therapeutic applications</p>
15:30 -16:30	<p>Keynote</p> <p>INV20: Nathalie Cartier, <i>AskBio, Paris</i> Gene therapy for CNS diseases : strategies, hurdles, results</p>
16:30-17:00	Coffee Break
17:00-17:40	<p>Session 6: Fighting cancer with novel weapons</p> <p>INV21: Hinrich Abken, <i>University of Regensburg</i> CARs, TRUKCKs and what is next? The evolution of CAR T cell therapy</p>
17:40 -18:40	<p>Keynote</p> <p>INV22: Vincenzo Cerullo, <i>University of Helsinki</i> Dressing viruses in tumor's clothing – new strategies in anti-tumor therapy</p>
19:00	Boat trip on the Danube with dinner and DJ

FRIDAY 19 APRIL

09:00-10:00	<p>Keynote</p> <p>INV23: Anne Galy, <i>Inserm ART-TG laboratory</i> Immune system: friend or foe in gene therapy</p>
10:00-10:30	<p>Coffee Break</p>
10:30-12:30	<p>Session 7: Pre-clinical and clinical gene therapy</p> <p>INV24: Giuliana Ferrari, <i>SR Tiget, Milan</i> Gene therapy for hemoglobinopathies: past, present and future</p> <p>INV25: Federico Mingozi, <i>Nava Therapeutics</i> Translating in vivo gene therapies from bench to bedside</p> <p>INV26: Fatima Bosch, <i>UAB, Barcelona</i> A new horizon in gene therapy: Moving from the treatment of rare to highly prevalent diseases</p>
12:30-13:30	<p>Keynote</p> <p>INV27: Claire Booth, <i>UCL London</i> It is all about accessibility</p>
13:30	<p>Closing</p> <p>Alberto Auricchio, Hildegard Büning, Zoltan Ivics</p>