

ANNUAL MEETING

NUCLEIC ACID THERAPEUTICS: GENETIC INDICATIONS AND BEYOND

TRANSLATUM, MUNICH | 6-8 MARCH 2024

PROGRAMME

WEDNESDAY 6 MARCH

12:00-13:00	Registration
13:00-13:10	Presidential Welcome Address & Welcome of Organizer
13:10-14:30	<p>Session 1: Targeting delivery of RNA Therapeutics Chair: Ernst Wagner, LMU, Munich</p> <p>13:10-13:30 Olivia Merkel, LMU, Munich INV01: Artificial Intelligence for the Design of New RNA Nanocarriers</p> <p>13:30-13:50 Ulrich Lächelt, University of Vienna INV02: Xenopeptides for the delivery of CRISPR/Cas9 ribonucleoproteins</p> <p>13:50-14:10 Christian Plank, Ethris, Munich INV03: Modulation of host immunity in the airways with interferon lambda encoding mRNA</p> <p>14:10-14:20 Mina Yazdi, LMU, Munich OR01: In vivo endothelial cell gene silencing by siRNA-LNPs tuned with lipoamino bundle chemical and ligand targeting</p> <p>14:20-14:30 Olympia Bikou, LMU, Munich OR02: Aerosolized gene and oligonucleotide therapy targeting microRNA-224 ameliorates pulmonary hypertension by orchestrating the BMP pathway</p>
14:30-15:00	<p>Session 2: Inflammation Therapeutics Chair: Ulrike Protzer, TUM, Munich</p> <p>14:30-14:50 Stefan Engelhardt, LMU, Munich INV05: Inhalation RNA therapeutics targeted to macrophages</p> <p>14:50-15:00 Lea Krutzke, University of Ulm OR03: Extracellular vaccine- or virus-derived SARS-CoV-2 spike protein: a potential link between reported pathologies</p>
15:00-15:40	<p>Wolfram Ostertag Lecture Chair: Manuel Grez</p> <p>15:00-15:05 Introduction by chair</p> <p>15:05-15:40 Dorothee von Laer, Medical University of Innsbruck INV06: A rhabdovirus for oncolysis and immunotherapy of cancer</p>
15:40-16:10	Coffee Break

<p>16:10-17:50</p>	<p>Session 3: Novel concepts in editing</p> <p>Chair: Julian Grünewald, <i>TUM Munich</i></p> <p>16:10-16:30 Toni Cathomen, <i>University of Freiburg</i> INV08: New insights in on- and off-target effects of genome editing</p> <p>16:30-16:50 Zoltan Ivics, <i>PEI, Langen</i> INV09: Next generation Sleeping Beauty transposases for nonviral engineering of therapeutic cells</p> <p>16:50-17:10 Frank Buchholz, <i>Dresden University</i> INV10: Engineering Designer-Recombinases for therapeutic genome editing</p> <p>17:10-17:30 Angelo Lombardo, <i>SR Tiget, Milan</i> INV11: Exploiting Targeted Epigenome Editing for Therapeutic Applications</p> <p>17:30-17:40 Victor Glaser, <i>Charité University Berlin</i> OR04: Enhanced safety in multiplex-edited T cells through combined use of distinct CRISPR enzymes for knock-in and base editing</p> <p>17:40-17:50 Sibtain Haider, <i>University Medical Center, Freiburg</i> OR05: Peptide-assisted tethering of DNA repair effectors to Cas9 for precise genome editing</p>
<p>17:50-18:40</p>	<p>Session 4: Keynote</p> <p>Chair: Zoltan Ivics, <i>PEI, Langen</i></p> <p>17:50-18:40 Laura Sepp-Lorenzino, <i>Intellia, Boston</i> INV12: Advances in Therapeutic CRISPR Cas9 Applications</p>
<p>18:40-20:00</p>	<p>Afterglow & posterwalk</p>

THURSDAY 7 MARCH

<p>08:30-09:00</p>	<p>Registration</p>
<p>09:00-10:20</p>	<p>Session 5: Editing cardiomyopathies</p> <p>Chair: Christian Kupatt, <i>TUM, Munich</i></p> <p>9:00-9:20 Julian Grünewald, <i>TUM, Munich</i> INV13: Engineering CRISPR technologies for application in cardiovascular medicine</p> <p>9:20-9:40 Mauro Giacca, <i>Kings College London</i> INV14: RNA Therapies for Cardiac Regeneration and Gene Editing</p> <p>9:40-10:00 Simon Lebek, <i>University Clinic Regensburg</i> INV15: CRISPR-Cas9 gene editing as a therapy for common cardiovascular diseases</p> <p>10:00-10:20 Charles Gersbach, <i>Duke University</i> INV16: Genome Editing for Duchenne Muscular Dystrophy</p>
<p>10:20-10:50</p>	<p>Coffee Break</p>

<p>10:50-12:10</p>	<p>Session 6: New preclinical and clinical cancer concepts</p> <p>Chair: Roland Rad, <i>TUM, Munich</i></p> <p>10:50-11:10 Claudio Mussolino, <i>University of Freiburg</i> INV17: Multiplexed epigenome editing to protect CAR T cells from cancer-induced activation of inhibitory checkpoints</p> <p>11:10-11:30 Liane Preußner, <i>BioNTech, Mainz</i> INV18: BNT211-01: Interim results from a repeat dose escalation study of CLDN6 CAR-T cells manufactured with an automated process ± a CLDN6-encoding CAR-T cell-Amplifying RNA Vaccine (CARVac)</p> <p>11:30-11:50 Ben Kleinstiver, <i>Harvard Medical School, Boston</i> INV19: Engineering Improved CRISPR Technologies</p> <p>11:50-12:00 Lea-Isabell Schwarze, <i>University Medical Center Hamburg-Eppendorf</i> OR06: Translation of advanced cell therapies for HIV+ patients</p> <p>12:00-12:10 Jonas Kath, <i>Charité University Berlin</i> OR07: CD3-zeta gene editing to reprogram T or NK cells with chimeric antigen receptors</p>
<p>12:10-13:40</p>	<p>Lunch & posters</p>
<p>13:40-14:50</p>	<p>Session 7: Cancer cell and virotherapy</p> <p>Chair: Dirk Nettelbeck, <i>DFKZ, Heidelberg</i></p> <p>13:40-14:00 Alan Melcher, <i>The Institute of Cancer Research, London</i> INV20: T cell receptor-antigen engagement dynamics with oncolytic virotherapy defines a novel subset of functionally active anti-tumour CD8 cells</p> <p>14:00-14:20 Per Sonne Holm, <i>Medical University Innsbruck</i> INV21: Cell cycle inhibition and epigenetic modulation meets YB-1 based virotherapy</p> <p>14:20-14:40 Guy Ungerechts, <i>NCT, Heidelberg</i> INV22: Viral Vectors for Cancer Immunotherapy</p> <p>14:40-14:50 Frederik Wiene, <i>University of Ulm</i> OR08: An oncolytic HAdV-5 with reduced surface charge combines diminished toxicity and improved tumour targeting</p>
<p>14:50-15:20</p>	<p>Coffee Break</p>
<p>15:20-17:00</p>	<p>Session 8: Novel cell therapeutics</p> <p>Chair: Florian Bassermann, <i>TUM, Munich</i></p> <p>15:20-15:40 Andrea Schmidts, <i>TUM, Munich</i> INV23: Engineering new CAR-T platforms</p> <p>15:40-16:00 Christine Spitzweg, <i>LMU, Munich</i> INV24: The sodium iodide symporter (NIS) as theranostic gene: its emerging role in new imaging modalities and non-viral gene therapy</p> <p>16:00-16:20 Winfried Wels, <i>GSH, Frankfurt</i> INV25: CAR-engineered NK cells: Empowering the first line of defense against cancer</p> <p>16:20-16:40 Evelyn Ullrich, <i>Goethe University Frankfurt</i> INV26: Engineering of primary CAR-NK cells paves the way for next generation immunotherapies</p> <p>16:40 -16:50 Kerstin Geiger, <i>University of Freiburg</i> OR09: Base editing restore cellular phenotype of T cells of patients with Hyper-IgE-Syndrome</p> <p>16:50-17:00 Jiri Eitler, <i>Dresden University of Technology</i> OR10: Dual targeting of PD-L1 and ErbB2 by CAR-NK cells enables specific elimination of solid tumor cells and overcomes immune escape via antigen loss</p>
<p>17:00-18:30</p>	<p>Afterglow & posterwalk</p>
<p>19:00-23:00</p>	<p>Networking event</p>

FRIDAY 8 MARCH

08:30-09:00	Registration
09:00-10:40	<p>Session 9: <i>In vivo</i> gene therapeutics</p> <p>Chair: Stefan Kochanek, <i>University of Ulm</i></p> <p>9:00-9:20 Stylianos Michalakis, <i>LMU, Munich</i> INV27: Development of retina-targeted gene therapy: new concepts and remaining challenges</p> <p>9:20-9:40 Tarik Bozoglu, <i>TUM, Munich</i> INV28: Affinity peptide mediated retargeting of AAV9 to cardiac interstitial cells</p> <p>9:40-10:00 Hildegard Büning, <i>MHH, Hannover</i> INV29: Tailoring Adeno-associated virus (AAV) vectors for in vivo gene therapy</p> <p>10:00-10:20 Dirk Grimm, <i>University of Heidelberg</i> INV30: AAV (finally) flexes its muscles: Evolution and application of myotropic AAV capsid variants</p> <p>10:20-10:30 Marco Radukic, <i>Bielefeld University</i> OR11: ITR instability in <i>E. coli</i>? The answer is 42 (°C) for improving quantity and quality of rAAV</p> <p>10:30-10:40 Ceren Kimna, <i>Helmholtz Center Munich</i> OR12: Cell Level Imaging of Nucleic Acid Therapeutics in Whole Mouse Bodies</p>
10:40-11:10	Coffee Break
11:10-11:20	<p>Session 10: Introduction of the National Network Office for Gene and Cell Therapies</p> <p>11:10-11:20 Elke Luger, <i>National Network Office for Gene and Cell Therapy</i> The National Network for Gene and Cell Therapies – just another network?</p>
11:20-12:35	<p>Session 11: Young investigator session</p> <p>Chair: Hildegard Büning, <i>MHH, Hannover</i></p> <p>11:20-11:35 Daniela Paasch, <i>MHH, Hannover</i> OR13: Scalable generation of functional human iPSC-derived CAR-macrophages that efficiently eradicate CD19- positive leukemia</p> <p>11:35-11:50 Samuel Theuerkauf, <i>Paul Ehrlich Institute, Langen</i> OR14: AAV vectors displaying bispecific DARPs enable dual-control targeted gene delivery</p> <p>11:50- 12:05 Juliane Schott, <i>MHH, Hannover</i> OR15: Third-generation lentiviral gene therapy rescues function in a mouse model of Usher 1B</p> <p>12:05-12:20 Martin Bentler, <i>MHH, Hannover</i> OR16: Modifying immune responses to adeno-associate virus vectors by capsid engineering</p> <p>12:20-12:35 Max Wichmann, <i>University Medical Center Hamburg-Eppendorf, Hamburg</i> OR17: Deep characterization and comparison of different retrovirus-like particles preloaded with CRISPR/Cas9 RNPs</p>
12:35-13:35	<p>Session 12: Ethical considerations</p> <p>Chair: Christopher Baum, <i>Berlin Institute of Health</i></p> <p>12:35-12:55 Klaus Tanner, <i>University of Heidelberg</i> INV31: Ethics through bureaucracy? The limits of formal rationality</p> <p>12:55-13:15 Jens Kersten, <i>LMU, Munich</i> INV32: A strategy of obsolete law?</p> <p>13:15-13:35 Gerd Maass, <i>Roche, Munich</i> INV33: Challenges and opportunities of CGT - the industrial perspective</p>

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