

8:00 AM Opening Registration and Reception  
 9:00 AM Welcome remarks

**Keynote Session**

9:10 AM Reinhold Messner  
 Mountaineer, adventurer & explorer, Italy  
*Moving Mountains*  
 9:50 AM Schraga Schwartz  
 Weizmann Institute of Science, Israel  
*Cracking the epitranscriptome*

**mRNA platforms**

10:20 AM Chair Introduction by Katalin Kariko  
 BioNTech, Germany  
 10:25 AM Stephen Hoge  
 Moderna Therapeutics, USA  
*The Clinical Development of mRNA Drugs and Vaccines*  
 10:50 AM Ingmar Hoerr  
 CureVac, Germany  
*mRNA Therapeutics: Getting to Products*  
 11:15 AM **Coffee Break**  
 11:35 AM Ugur Sahin  
 BioNTech, Germany  
*Delivering Messages for Cancer Immunotherapy*

**mRNA Delivery & Design**

12:00 PM Chair Introduction by Melissa Moore  
 Moderna Therapeutics, USA

12:05 PM Steve F. Dowdy  
 UCSD School of Medicine, USA  
*Delivery of RNA Therapeutics: Overcoming a Billion Years of Evolutionary Defenses*  
 12:25 PM Christine Esau  
 Arcturus Therapeutics, USA  
*LUNAR-mRNA for protein replacement therapy*  
 12:45 PM Tom Madden  
 Acuitas Therapeutics, Canada  
*Optimizing the Therapeutic Index of messenger RNA-Lipid Nanoparticles for Clinical Application*

1:05 PM **Lunch Break with Poster Session**

2:05 PM Chantal Pichon  
 Université d'Orléans, France  
*Insights from intracellular trafficking studies for mRNA delivery and bioproduction*  
 2:25 PM Alexandra Stolzing  
 Loughborough University, UK  
*mRNA for cell reprogramming*  
 2:45 PM Poster talk by Renata Grzela  
 University of Warsaw, Poland  
*Stability, translational efficiency of capped mRNA and induction of anti-viral protein IFIT1 in HEK293 cells*  
 2:55 PM Poster talk by Katrien Remaut  
 Ghent University, Belgium  
*Advanced microscopy methods to elucidate bottlenecks in lipid- and polymer assisted mRNA delivery: finding the balance*  
 3:05 PM Poster talk by Asha K. Patel  
 Massachusetts Institute of Technology, USA  
*Chemically versatile, degradable nano-carriers for systemic and localized delivery of mRNA to the lung*

**Molecular Therapy, Antibodies & Protein Replacement**

3:15 PM Chair Introduction by Nigel Horscroft  
 CureVac, Germany  
 3:20 PM Regina Fritsche-Danielson  
 AstraZeneca, Sweden  
*VEGF-A Modified mRNA Therapy for Treatment of Chronic Skin Ulcers and Ischemic Heart Disease. From Preclinical Studies to Phase2A*  
 3:40 PM Keiji Itaka  
 Tokyo Medical and Dental University, Japan  
*mRNA-based therapy for intractable diseases and regenerative medicine*

4:00 PM **Coffee Break**

4:20 PM Michael Kormann  
 University of Tübingen, Germany  
*Chemically modified CFTR mRNA normalizes critical lung function parameters in vivo*  
 4:40 PM Lior Zangi  
 Icahn School of Medicine at Mount Sinai, USA  
*Cardiomyocytes Specific Modified mRNA of Cell Cycle Inducer Promote Mammalian Cardiac Regeneration Post Injury*  
 5:00 PM Lianne Smith  
 Translate Bio, USA  
*mRNA Therapeutics for the Treatment of Rare Diseases*  
 5:20 PM Poster talk by Ellese Carmona  
 Harvard Medical School, USA  
*Circular mRNA as a Novel Template for Therapeutic Gene Transfer*  
 5:30 PM Poster talk by Robert Overell  
 PhaseRx, USA  
*Targeted mRNA delivery to the liver as a treatment for ornithine trans-carbamylase deficiency (OTCD)*

**Panel Discussion »Challenges and future of mRNA products«**

5:40 PM Moderated by Sascha Karberg  
 Tagesspiegel, Germany  
*Participants: Ingmar Hoerr, Stephen Hoge, Christian Mandl, Norbert Pardi, Ugur Sahin*


**Closing of Conference day 1**

6:20 PM Closing remarks day 1

**Networking Evening**


6:45 PM Enjoy an exclusive networking evening with the mRNA community in Berlin's old waterworks

Address: Wasserwerk, Hohenzollerndamm 208a, 10717 Berlin  
 Please see the map in your conference bag.

 Busses will bring you to the evening location and back to the Sofitel.

6:30 PM First bus departure from the hotel to the evening location

9:00 PM First bus departure from the evening location back to the hotel

 You can also reach the location for our networking evening on foot in just 15 minutes (1 km / 0.62 mi)

9:00 AM Welcome remarks day 2

**Cancer Therapy**

9:05 AM **Chair Introduction by Kris Thielemans**  
Vrije Universiteit Brussel, Belgium

9:10 AM **Hayat Bähr-Mahmud**  
BioNTech, Germany  
*Elimination of solid tumors in mice by mRNA-encoded bispecific antibodies*

9:30 AM **Karine Breckpot**  
Vrije Universiteit Brussel, Belgium  
*TriMix mRNA-based cancer vaccines*

9:50 AM **Stefaan De Koker**  
eTheRNA Immunotherapies, Belgium  
*Type I IFN and T-cell immunity to mRNA vaccines: good, bad or just expandable?*

10:10 AM **Smita Nair**  
Duke University School of Medicine, USA  
*RNA-based Cancer Vaccines*

10:30 AM **Poster talk by Irina Tcherepanova**  
Argos Therapeutics, USA  
*Interim analysis of Rocapuldencel-T testing in the ongoing Phase 3 study in mRCC patients*

10:40 AM **Coffee Break**

**Vaccines against Infectious Diseases**

11:10 AM **Chair Introduction by Luc Aujame**  
Independent Consultant, France

11:15 AM **Michela Brazzoli**  
GSK Vaccines, Italy  
*Self-amplifying mRNA-based vaccine promotes different types of immune responses correlating with protection in influenza animal models*

11:35 AM **Justin Richner**  
IIT Research Institute, USA  
*A novel mRNA vaccine protects against Zika virus in a mouse model*

11:55 AM **Jörg Vogel**  
University of Würzburg, Germany  
*RNA-based Infection Research*

12:15 PM **Lunch Break with Poster Session**

1:15 PM **Drew Weissman**  
University of Pennsylvania, USA  
*Nucleoside-modified mRNA-lipid nanoparticle vaccine platform induces potent T follicular helper and antibody responses*

1:35 PM **Frank Baehner**  
CureVac, Germany  
*mRNA based rabies vaccine: From first clinical proof of principle towards competitive product candidates*

1:55 PM **Poster talk by Hanne Huysmans**  
Ghent University, Belgium  
*Comparison of the expression kinetics and immunostimulatory activity of replicating mRNA, non-replicating mRNA and pDNA after intradermal electroporation in pigs*

**Product Development**

2:05 PM **Chair Introduction by Christian Mandl**  
Vir Bio, USA

2:10 PM **Arlen Avakian**  
Alexion, USA  
*mRNA, Developing a New Therapeutic Modality for the Treatment of Rare Diseases*

2:30 PM **Coffee Break**

2:50 PM **Thomas Hinz**  
Paul-Ehrlich-Institut, Germany  
*Regulatory Aspects of RNA-Based Medicines*

3:10 PM **Klaus T. Preissner**  
Justus-Liebig-Universität Gießen, Germany  
*RNase1 administration as an effective and safe regimen against damaging extracellular RNA in cardiovascular diseases*

3:30 PM **Janos Szebeni**  
Semmelweis University, Hungary  
*Immune reactivity of lipid nanoparticle formulations of nucleic acid-based therapeutics: animal models*

**Closing of the Conference**

3:50 PM **Awarding of the Poster Prizes & Closing remarks by the Organizing Committee**

4:00 PM **End of Conference**