



Agenda for the 11th International mRNA Health Conference (Status of the 30th of October – Subject to change)

Monday, October 30, 2023 in Berlin only

06:00-10:00 pm	Get Together at the Mercure MOA Berlin
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Tuesday, October 31

Opening: Welcome & Logistics

08:15 - 08:30 am, CET

08:15 am	Alexander Zehnder	Welcome & Logistics
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Session 1: An introduction to mRNA Medicines

Chair: Katalin Karikó

08:30 - 10:00 am, CET

This first session will consist of a series of teaching lectures to provide newcomers with the necessary background to understand current state-of-the-art and remaining challenges for making future mRNA medicines.

08:30 am	Katalin Karikó	mRNA History
08:48 am	Eckhard Jankowsky	mRNA Biology & Engineering
09:06 am	Patrick Baumhof	Formulation & Delivery
09:24 am	Norbert Pardi	mRNA Vaccine Mechanisms
09:42 am	Tatiana Novobrantseva	mRNA Therapeutics

10:00 - 10:30 am, CET Coffee Break

Session 2: Translation

Chair: Eckhard Jankowsky

10:30 am - 12:30 pm, CET

10:30 am	Jeffrey Chao	Imaging the life and death of mRNAs in single cells
10:54 am	Liang Huang	Optimized mRNA Design Improves Stability and Immunogenicity
11:18 am	Zefeng Wang	Translation of circular RNAs- from regulatory mechanism to therapeutic applications
11:36 am	Alicia Bicknell	Attenuating ribosome load improves protein output from therapeutic mRNAs by limiting translation-dependent mRNA decay
11:54 am	Qianqian Ni	Development of folding messenger RNA technology for enhanced protein production
12:12 pm	Guillermo Garcia Marquina	Seamless DNA template preparation and co-transcriptional 5' capped RNA synthesis by solid-phase catalysis

Lunch break

12:30 - 12:45 pm	Shigetomo Tsujihata	Fujifilm's capabilities for LNP formulation, Process Development and manufacturing solutions
1:45 - 2:00 pm	Oladimeji Fashola	A new paradigm in mRNA bioprocessing: Rabies construct in an Ntensify™ Midi engineering run

Session 3: Vaccines I

Chair: Norbert Pardi

2:00 - 3:30 pm, CET

2:00 pm	Sumana Chandramouli	Harnessing the power of mRNA technology for prevention and treatment of infectious diseases
2:16 pm	Andreas Kuhn	Analyzing mRNA identity, ratio, and integrity in RNA mixtures
2:32 pm	Régis Gervier	Leverage leading edge mRNA platform to drive sustainable growth in Vaccines
2:48 pm	Satoshi Uchida	Naked mRNA Jet Injection into the Skin Enables the Robust Vaccination against SARS-CoV-2 in Mice and Cynomolgus Monkeys
3:01 pm	Jack Yoon	Strong Immune Protection against Severe Fever with Thrombocytopenia Syndrome Virus (SFTSV) in Mice immunized with Novel SFTSV mRNA Vaccine
3:14 pm	Magnus Hoffmann (virtual)	EABR Nanoparticles as a Platform Technology for Hybrid mRNA Vaccine Development

3:30 - 4:00 pm, CET Coffee Break

Session 4: Flash Poster Talks / New Company Introductions

Chair: Mustafa Diken

04:00 - 05:00 pm, CET

4:00 pm	Samuele Stazzoni	Discovery and characterization of a broadly protective mRNA-encoded antibody cocktail against antimicrobial resistant <i>Klebsiella pneumoniae</i>
4:05 pm	Joe Newman	Pioneering a New Class of Genomic Design and Characterization of Programmable Epigenomic mRNA therapeutics
4:10 pm	Marie Berger	Assessing the particle concentration of mRNA-LNP using Videodrop
4:15 pm	Katherine Schultheis	ATP (ACM-tunable platform) is a next-generation mRNA delivery platform with superior thermostability

4:20 pm	Eunbin Cho	Purification of in vitro transcribed RNA using mesoporous silica as an RNA adsorbent
4:25 pm	Daniel Quevedo	AI-assisted design of LNP for effective lung and CNS Delivery of RNA
4:30 pm	Ji-Hyun Park	Efficacy of a Novel Bivalent saRNA Vaccine against H3N2 and H3N8 Canine Influenza Strains
4:35 pm	Javier Giménez Warren	Unleashing the Future: Pioneering New Ionizable Lipids and LNP Formulations enable Targeted Oligonucleotide Delivery with outstanding in vivo performance
4:40 pm	Hyun-Bae Jie	A novel approach to circular RNA Synthesis and its therapeutic approach
4:45 pm	Olivier Laczka	Co-encapsulation of mRNA with TLR7-inhibitory trimeric oligonucleotides as a novel strategy to reduce reactogenicity without impacting translation efficiency
4:50 pm	Sunil Yadava	Hybrid lipid nanocapsules: a nanoplatform for delivery of mRNA
4:55 pm	Federica Quattrone	Targeted mRNA delivery to Langerhans cells promotes efficient antigen-specific T cell responses

Session 5: Poster Session - Odd-numbered Posters

5:00 - 6:30 pm, CET

Conference Dinner & Session 6: Keynote

At the Atrium in the Mercure MOA Berlin

06:30 - 10:30 pm, CET

6:50 pm	Katalin Karikó	Developing mRNA for therapy
from 7:20 pm	Dinner only for participants in Berlin	

Wednesday, November 1st

Session 7: Keynote

Chair: Daniel Siegwart

8:00 - 9:00 am, CET

08:00 am	Alexander Zehnder	Welcome & Logistics
08:05 am	Philip Felgner	150 Years of Vaccine Science

9:00 - 9:30 am, CET *Coffee Break*

Session 8: Vaccines II

Chair: Norbert Pardi

9:30 - 11:30 am, CET

09:30 am	Steve Roffler	Anti-PEG antibodies: the good, the bad and the ugly
09:52 am	Jordan Minnell	mRNA vaccine against malaria tailored for liver-resident memory T cells
10:10 am	Benjamin Goldman-Israelow (virtual)	Harnessing polymeric nanoparticles for respiratory mucosal mRNA vaccines
10:32 am	Igor Smolenov	Self-amplifying RNA platform: Growing evidence from pivotal clinical studies
10:50 am	Colin Pouton	mRNA COVID-19 vaccines encoding membrane-anchored spike protein RBDs induce strong immune responses and overcome immune imprinting
11:08 am	Janine Mühe	Immunogenicity and Protective activity of Messenger RNA Vaccine Candidates Against Yellow Fever Virus in Pre-clinical Animal Models

Lunch break

11:30 - 11:45 am	Romain Micol	Revolutionizing the next generation of mRNA vaccines for improved biodistribution, safety and efficacy with the MOPCTX Platform
12:45 - 1:00 pm	Jing Zhu	Accelerating mRNA Clinical Development from Start to Finish

Session 9: Delivery I

Chair: Patrick Baumhof

1:00 - 2:30 pm, CET

1:00 pm	Gaurav Sahay	The quest for next generation lipid nanoparticles for cell-specific delivery of mRNA
1:18 pm	Qiaobing Xu	Organ and cell selective delivery using synthetic biodegradable lipid nanoparticles for gene therapy and gene editing
1:36 pm	Ying Tam	Characterizing the therapeutic application of messenger RNA-Lipid nanoparticles
1:54 pm	Marco Ciufolini	Development of Competent Ionizable Lipids for the Delivery of Nucleic acids
2:12 pm	Kieu Lam	Optimizing Lipid Nanoparticles for Delivery in Primates

2:30 - 3:00 pm, CET *Coffee Break*

Session 10: Delivery II

Chair: Daniel Siegwart

3:00 - 4:30 pm, CET

3:00 pm	Ilke Aernout	Exploring Galsomes, an mRNA based nanovaccine, for protection against intracellular bacterial infections
3:18 pm	Muthusamy Jayaraman	Novel LNP-Based Delivery of mRNA to Extra-Hepatic Tissues in NHPs
3:36 pm	Won Jong Kim	Polymer nanoparticles for mRNA delivery
3:54 pm	Martin Rabel	Fit-for-Purpose Lipid Nanoparticles to Accelerate Development of Genomic Medicines
4:12 pm	Dal-Hee Min	Next-generation drug delivery system, DegradaBALL, for advanced mRNA therapy and vaccines

4:30 - 4:55 pm, CET *Coffee Break*

Session 11: Introduction to the Alliance of mRNA Medicine

4:55 - 5:30 pm, CET

4:55 pm	Clay Alspach, Andreas Kuhn, Morrie Ruffin, Sara Singleton, Anshul Mangal, Andrew Geall	Introduction to the Alliance of mRNA Medicine
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Session 12: Poster Session - Even-numbered Posters

5:30 - 7:00 pm, CET

Thursday, November 2nd**Welcome & Logistics**

8:00 - 8:10 am, CET

8:00 am	Alexander Zehnder	Welcome & Logistics
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Session 13: Manufacturing

Chair: Patrick Baumhof

8:10 - 9:50 am, CET

8:10 am	Zoltán Kis	Innovating and digitalising mRNA vaccine and therapeutics production processes
8:30 am	Venekata Indurthi	Streamlined mRNA manufacturing: Innovative solutions to reduce timeline to clinic
8:46 am	Xiao Xiao	Novel CAP Analogs and modified NTPs to enable therapeutic mRNA development
9:02 am	Scott Ripley	Addressing GMP Manufacturing Challenges of mRNA-LNP Drug Products
9:18 am	Khaled Yamout	Analytical consideration to support successful mRNA programs
9:34 am	Andreas Wagner (virtual)	Guiding RNA formulations from laboratory research to the market – Lessons learned from development and optimization of LNP/liposome formulations

Announcement of Poster Prize Winners

Scientific Committee

9:50 - 10:00 am, CET

10:00 - 10:30 am, CET *Coffee Break***Session 14: Cancer Vaccines**

Chair: Mathias Vormehr

10:30 am - 12:00 pm, CET

10:30 am	Kyle Holen	A personalized cancer vaccine, mRNA-4157
10:46 am	Markus Zettl	Cancer mRNA vaccines ignite an effective anti-tumor immune response
11:02 am	Benjamin Rengstl	BNT211: A Phase 1 Trial Evaluating Safety and Efficacy of CLDN6 CAR-T Cells in combination with an CAR-T cell Amplifying RNA vaccine in Patients with CLDN6-positive Advanced Solid Tumors
11:18 am	Jamile Ramos da Silva	Single immunizations of self-amplifying or non-replicating mRNA-LNP vaccines control HPV-associated tumors in mice
11:34 am	Wigard Kloosterman	Systematic identification of cancer neoantigens derived from neo-open reading frames
11:44 am	Vinod Balachandran (virtual)	Neoantigen quality predicts immunoeediting in survivors of pancreatic cancer

12:00 - 01:00 pm, CET *Lunch Break***Session 15: Therapeutics**

Chair: Tatiana Novobrantseva

1:00 - 2:30 pm, CET

1:00 pm	Jun Zhou (virtual)	mRNA-Based Strategies for Osteoarthritis Treatment
1:10 pm	Ajit Magadum (virtual)	Combinatorial Delivery of Serine Synthesis Pathway Genes Induced Cardiac Regeneration and Cardiac Function in Ischemic Heart Diseases
1:26 pm	Florian Leuschner	Prevention of heart failure after myocardial infarction: modulating inflammation with mRNA overexpression
1:42 pm	Zi Jun Emma Wang (virtual)	Directed Evolution Strategies for Targeting Undruggable Targets in Gene Editing Therapies
1:58 pm	Hamideh Parhiz (virtual)	RNA-based in vivo cellular reprogramming, an evolving gene therapy paradigm
2:14 pm	Andre Nel (virtual)	Liver-targeting Multi-epitope mRNA Tolerogenic Nanoparticles for the Treatment of Food allergy and Type I Diabetes

2:30 - 2:45 pm, CET *Coffee Break***Session 16: Targeting**

Chair: Patrick Baumhof

2:45 - 3:40 pm, CET

2:45 pm	Dan Peer	Delivery of Therapeutic RNAs using Targeted Lipid Nanoparticles
3:10 pm	Magdalena M. Žak	A targeted systemic delivery platform of therapeutic modified mRNA and modRNA-derived antibodies for precision triple negative breast cancer treatment
3:25 pm	Cafer Ozdemir	Engineering Synthetic mRNAs That Are Selectively Translated In Cancer Cells

Passing of Baton and Closing

3:40 - 4:00 pm

3:40 pm	ModeRNA & CureVac
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