

## 6th International mRNA Health Conference

### AGENDA

#### Day 1: Monday, November 12

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- 7:00 - 8:30 Breakfast
- 8:30 Welcome and meeting organization (Melissa & Stephane)
- 8:45 - 10:15 **Ben Zander**, Boston Philharmonic Orchestra Director  
<http://benjaminzander.com/>  
[https://en.wikipedia.org/wiki/Benjamin\\_Zander](https://en.wikipedia.org/wiki/Benjamin_Zander)
- 10:15 - 10:30 Coffee Break
- 10:30 - 11:30 **Session I: Platform Overviews** [2 x (20 min talk + 5 min questions) = 50 min]  
Ugur Sahin - BioNTech  
Dan Menichella - CureVac
- 11:30 - 12:30 **Session II: Delivery I** [3 x (15 min talk + 5 min questions) = 60 min]  
Daniel Siegwart - UT Southwestern  
*"Chemical design of carriers for delivery long RNAs: From mRNA-mediated protein replacement therapy to CRISPR/Cas gene editing"*  
Tom Madden - Acuitas  
*"Characterizing the therapeutic application of messenger RNA-lipid nanoparticles"*  
Andreas Wagner - Polymun  
*"Guiding RNA formulations from laboratory into clinical trials. Lessons learned from development and optimization of liposomal formulations"*  
Haifa Shen, MD, PhD Professor -Houston Methodist Research Institute, Session Chair
- 12:30 - 1:45 **Lunch**
- 1:45 - 3:45 **Session II: Vaccines and Cancer Therapy** [5 x (15 min talk + 5 min questions) = 100 min]  
Norbert Pardi - Univ. Pennsylvania  
*"Vaccination with nucleoside-modified mRNA"*  
Dong Yu - GSK  
*"Vaccine development using self-amplifying RNA"*  
Andrew Bett - Merck  
*"An mRNA-based vaccine expressing RSV F is immunogenic and protective in non-human primate models of Respiratory Syncytial Virus infection"*  
Hangwen Li - Stemirna  
*"Development of mRNA based cancer vaccines in China"*

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Tim Wagenaar – Sanofi

*“From cold to hot: Using mRNA to alter the tumor microenvironment”*

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#### Session II (cont):

Short Talks: [2 x (8 min talk + 2 min questions) = 20 min]

Lien Van Hoecke - Ghent Univ

*"Therapeutic anti-tumor immunity directed against neo-epitopes by intratumor delivery of mRNA encoding MLKL, a mediator of necroptosis"*

Colin Pouton - Monash University

*"Self-crosslinking lipopeptide/nucleic acid/polymer particles: a new platform for nucleic acid vaccination enabling assembly in aqueous solution"*

Christian Mandl - Tiba Biotech, Session Chair

3:45 - 4:00

Coffee Break

4:00 - 5:30

#### Session III: Controlling mRNA and Protein Synthesis

[3 x (15 min talk + 5 min questions) = 60 min]

Georg Seelig - University of Washington

*"Human 5'UTR Design and Variant Effect Prediction from a Massively Parallel Translation Array"*

Sun Hur - Harvard Medical School

*"An Origin of the Immunogenicity of In Vitro Transcribed RNA"*

Anton McCaffrey - Trilink

*"Exploring the Messenger RNA Capping Code: CleanCap Co-transcriptional Capping Allows One Pot Synthesis of Previously Inaccessible Types of Caps"*

Short Talks:

[3 x (8 min talk + 2 min questions) = 30 min]

Craig Martin - UMass Amherst

*"3' end additions by T7 RNA polymerase are RNA self-templated, distributive, and diverse in character – RNA-Seq analyses"*

Stefano Gustincich – Istituto Italiano di Tecnologia

*"SINEUPs: a new antisense, long non-coding RNA-based platform to increase endogenous protein levels for therapy"*

Scott Tenenbaum - SUNY Polytech

*"sxRNA: Controlling the expression of a therapeutic mRNA based on the unique microRNA profile of a cell"*

Kris Thielemans - Vrije Universiteit Brussel, Session Chair



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#### Day 2: Tuesday, November 13 (cont.)

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10:45 - 12:35      **Session VI: Delivery II**      [5 x (15 min talk + 5 min questions) = 100 min]

Paula Hammond - MIT

*"Designer Polypeptides and Electrostatic Assembly for RNA-protein Enhanced Delivery"*

Yhizou Dong - Ohio State

*"Development of nanomaterials for mRNA therapeutics and genome editing"*

Pad Chivikula - Arcturus

*"LUNAR®: Enabling Delivery of mRNA Therapeutics and Vaccines"*

James Heyes - Genevant

*"Developing mRNA Therapeutics with LNPs"*

John Androsavich - Translate Bio

*"Advancing the development of mRNA therapeutics to restore protein function"*

Short Talk:

[1 x (8 min talk + 2 min questions) = 10 min]

Piotr Kowalski - MIT

*"Ionizable amino-polyesters synthesized via ring opening polymerization with tertiary amino-alcohols for tissue selective mRNA delivery"*

Roland Brock - Radboud University, The Netherlands, Session Chair

12:35 - 1:45      **Lunch**

1:45 - 3:45      **Session VII: Therapeutic Proteins**

[5 x (15 min talk + 5 min questions) = 100 min]

Adam Resnick - Children's Hospital of Philadelphia

*"Translating large-scale data to novel therapeutic platforms on behalf of childhood diseases"*

Christian Plank - Ethris

*"Messenger RNA therapeutics for bone regeneration"*

Keiji Itaka - Tokyo Medical and Dental University

*"mRNA as a New Paradigm of Gene Therapy for Intractable Diseases and Regenerative Medicine"*

Romesh Subramanian - Atlas Venture

*"Promise of mRNA therapies in rare disease and dimensions of optimization"*

Anna Collén - AstraZeneca

*"VEGF-A mRNA: A novel therapeutic for treatment of ischemic heart disease"*

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##### Session VII (cont.):

Short Talks: [2 x (8 min talk + 2 min questions) = 20 min]

Ajit Magadum - Mount Sinai

*"Ablation of a single N-glycosylation site in human FSTL1 induces cardiomyocyte proliferation and cardiac regeneration"*

Sonia Golombek - University Hospital Tübingen

*"Intradermal delivery of synthetic tropoelastin mRNA by microinjection results in production of elastin in the skin"*

Lior Zangi, Icahn School of Medicine at Mount Sinai, Session Chair

3:45 - 4:00

Awards and Poster Prizes

Closing Remarks by Organizing Committee