

## 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 - 11:45 **Session I: Platform Overviews** [3 x (20 min talk + 5 min questions) = 75 min]  
  
Ugur Sahin - BioNTech  
Dan Menichella - CureVac  
Stephen Hoge - Moderna
- 11:45 - 12:45 **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"*
- 12:45 - 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"*  
Tim Wagenaar – Sanofi  
*"From cold to hot: Using mRNA to alter the tumor microenvironment"*

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#### Day 1: Monday, November 12 (cont.)

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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"*

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"*

Chantel Pichon - Univ. Orléans

*"Bioproduction of mRNA: a proof of concept study"*

Scott Tenenbaum - SUNY Polytech

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



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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”*
- 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”*
- Romesh Subramanian - Atlas Venture  
*“Promise of mRNA therapies in rare disease and dimensions of optimization”*
- Keiji Itaka - Tokyo Medical and Dental University  
*“mRNA as a New Paradigm of Gene Therapy for Intractable Diseases and Regenerative Medicine”*
- Christian Plank - Ethris  
*“Messenger RNA therapeutics for bone regeneration”*
- 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"*

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Sonia Golombek - University Hospital Tübingen

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

3:45 - 4:00

Awards and Poster Prizes

Closing Remarks by Organizing Committee