

**mRNA Health Conference
Draft Schedule**

Day 1: November 12

Benjamin Zander, Director, Boston Philharmonic Orchestra
"The Art of Possibility"

Session I: Platform Overviews

Ugur Sahin – BioNTech

Dan Menichella – CureVac

Stephen Hoge – Moderna

Session II: Delivery

Daniel Siegwart – University of Texas 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"

Yizhou Dong - Ohio State University
Development of nanomaterials for mRNA therapeutics and genome editing

Priya Karmali - Arcturus
"LUNAR®: Enabling Delivery of mRNA Therapeutics and Vaccines"

James Heyes - Genevant
"Developing mRNA Therapeutics with LNPs"

Short talks from submitted abstracts

Session III: Therapeutic Proteins

Regina Fritsche-Danielson - AstraZeneca
"VEGF-A mRNA: A novel therapeutic for treatment of ischemic heart disease"

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"

Tim Wagenaar – Sanofi
"From cold to hot: Using mRNA to alter the tumor microenvironment"

Short talks from submitted abstracts

Poster Session with Cocktails, Appetizers and Musicians from Berkeley College of Music & New England Conservatory

Dinner with Music

Day 2: November 13

Keynote: John Maraganore, CEO, Alnylam

Session IV: Regulatory Round Table

Discussion of key questions relevant to mRNA therapeutics by representatives from European and US regulatory agencies and industry regulatory affairs officers

Session V: Screening and Engineering mRNAs and Proteins

Anton McCaffrey - Trilink

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

Sun Hur - Harvard Medical School

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

Georg Seelig - University of Washington

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

Adam Resnick - Children's Hospital of Philadelphia

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

Paula Hammond – MIT

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

Short talks from submitted abstracts

Session VI: Vaccines

Norbert Pardi - University of Pennsylvania

"Nucleoside-modified mRNA immunization elicits influenza virus hemagglutinin stalk-specific antibodies"

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"

Short talks from submitted abstracts