

July 26-28, 2023 | Boston, MA

Register by May 19 &  
Save Up To \$950



3rd Annual  
**mRNA-Based  
Therapeutics Summit**

Supercharging the Next Wave of Efficacious mRNA Therapeutics & Vaccines

Unlock mRNA Platforms for Next Generation Therapeutics & Vaccines from Concept to Clinical Validation & Commercialization for Patients in Need Across All Disease Indications



**Peter Marks**  
Director - Center  
for Biologics  
Evaluation &  
Research (CBER)  
U.S. Food & Drug  
Administration  
(FDA)



**Sonia Stoszek**  
Executive Director  
& Program Lead -  
RSV Vaccines  
Moderna



**Aleksandra  
Pastrak**  
CMO  
Providence  
Therapeutics



**Michael Wenger**  
VP - Clinical  
Development  
BioNTech SE



**Vira Bitko**  
VP & Head of  
Vaccines  
RVAC Medicines



**Frank DeRosa**  
CTO & Global  
Head of Research,  
mRNA Center of  
Excellence  
Sanofi



**Kathleen  
Francissen**  
Global Head of  
Regulatory PT Cell  
& Gene Therapies  
Roche



**Yusuf Erkul**  
CEO  
Kernal Bio



**Annette Bak**  
Head of Advanced  
Drug Delivery  
AstraZeneca

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www.mrnabased-therapeutics.com

RNA Therapeutics & Vaccines

Preview the Event



JOIN  
500+  
mRNA  
EXPERTS

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AGENDA  
HIGHLIGHTS

TESTIMONIALS

100+ EXPERT  
SPEAKERS

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DAY ONE

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# WELCOME TO THE 3<sup>RD</sup> mRNA-BASED THERAPEUTICS SUMMIT!

To our global mRNA community,

The **mRNA revolution** is here! Stretching beyond COVID-19 vaccines, the field has exploded with 800+ mRNA drugs currently in development and the acceleration of novel mRNA platforms into uncharted disease areas.

The hotly anticipated annual **mRNA-Based Therapeutics Summit** returns to Boston in July for the **3<sup>rd</sup> year**, as the industry's premier, definitive, and most comprehensive forum bringing you a forum to discover and develop first-in-class clinically validated mRNA-based therapeutics, and best-in-class safe and effective mRNA-based vaccines that can be delivered to patients faster.

**100+ world-class speakers** will be showcasing brand-new pivotal data from discovery to clinical proof-of-concept, development and commercialization, to ensure a pathway of success for regulatory approval of mRNA drugs and to unleash their potential in areas of oncology, infectious and rare diseases, and beyond.

**3 days of carefully curated sessions** will gather **400+ mRNA trailblazers** across **5 dedicated tracks** of content spanning **Discovery, Translation, Clinical Development, Chemistry, Manufacturing & Controls (CMC)** and **Logistics** to overcome the industry's largest bottlenecks from optimized dosing, targeted delivery, safety and scalability.

Developed with expert insights from the mRNA community including the **FDA, Pfizer, BioNTech SE, Moderna, Sanofi, Beam Therapeutics** and many more, this is your unmissable opportunity to collaborate with **key stakeholders** across pharma, biotech, regulatory bodies and solution providers.

Join the **world's only end-to-end forum** focused on the discovery and development of emerging mRNA therapeutics and vaccines to drive the next wave of clinical adoptions, leading to widespread application, positively impacting patients in need.

I look forward to welcoming you to Boston this July to deliver the promise of mRNA medicines.



*Huzefa Rupawala, Ph.D.*

Senior Program Director - World RNA Series  
Hanson Wade

July 26-28, 2023  
Boston, MA



## WHAT'S NEW FOR 2023?



**400+ Attendees**

**100+ Thought Leading Speakers**



**10+ Hours of Dedicated Networking**

**5 Interactive Panel Discussions**



**80% BRAND NEW Speakers for 2023**

**NEW 5 Track Agenda**



**Biopharma Leaders' Fireside Chat**

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## NEW TO THE AGENDA FOR 2023:



## AGENDA HIGHLIGHTS

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### PRE-CONFERENCE FOCUS DAY: NEXT GENERATION mRNA- MEDIATED TECHNOLOGIES

GRAND  
REVEAL

- Harness the power of mRNA for use in gene editing and cell therapy to expand disease targets and maximize therapeutic potential
- Discover the future of programmable and switchable RNA tools, taking mRNA therapeutics to new heights
- Insights from **Exacis Biotherapeutics, Cartesian Therapeutics, Turn Biotechnologies, Strand Therapeutics** and more



### PRE-CONFERENCE WORKSHOP DAY

- Elucidate your understanding into novel LNP formulations and beyond for next generation mRNA therapeutic and vaccine delivery
- Explore the potential of circular RNA with improved design and stability to overcome immunogenicity
- Expand your analytical toolbox to include an arsenal of tests to ensure your mRNA products' quality and consistency can meet the future regulatory standards
- Insights from **Tessera Therapeutics, Seqirus, Orbital Therapeutics**, and more



### DISCOVERY

- Unlock next generation mRNA sequence optimization, from capping to poly-A tails to enhance chemical stability and protein expression
- Unleash novel payload carriers from LNPs and beyond to enable successful tissue targeting and selectivity
- Insights from **ReCode Therapeutics, AstraZeneca, Nava Therapeutics, pHion Therapeutics** and more



### TRANSLATION

- Optimize your mRNA medicines using the most relevant *in vitro* and *in vivo* models for improved safety and efficacy
- Explore the latest mRNA preclinical investigations into infectious diseases, oncology, lung and protein replacement therapies
- Insights from **Kernal Bio, Ethris, Elastrin Therapeutics, ARV Technologies** and more



### CLINICAL DEVELOPMENT

NEW  
DATA

- Delve into the latest mRNA-based vaccine early phase clinical trials for global infectious diseases and oncological indications
- Utilise your platforms and explore the potential of advancing mRNA-based therapeutics for rare diseases
- Insights from **Moderna, Vertex Pharmaceuticals, Gritstone Bio, RVAC Medicines** and more



### CHEMISTRY, MANUFACTURING & CONTROLS (CMC)

- Discover new tools for mRNA product development and analytical characterization to create the ultimate therapeutic
- Elevate your mRNA drug product CMC processes at scale to accelerate drugs to market
- Insights from **BioNTech SE, Genentech, Omega Therapeutics, GeneLeap Biotech** and more



### LOGISTICS

NEW  
TRACE

- Combat mRNA raw material sourcing, cold chain storage and bioproduction for an efficient supply chain
- Expand mRNA vaccine and therapeutic global supply chains with equity, sustainability and cost effectiveness to LMICs
- Insights from **Sanofi, CEPI, PATH** and more

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# HEAR WHAT LEADERS IN THE FIELD ARE LOOKING FORWARD TO:

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“The meeting is one of the most important events to bring scientists from academia and industry together for exchange and networking in the field of mRNA therapeutics”

**Heinrich Haas**  
VP – RNA Formulation & Drug  
Delivery  
**BioNTech SE**



“The value added for this meeting participation is to leverage the innovation expected from the movers and shakers in the mRNA vaccine field on the process and analytical technologies that could be amenable for LMIC use”

**Lakshmi Khandke**  
Senior Program Advisor  
**PATH**



“The 3<sup>rd</sup> mRNA-Based Therapeutics Summit is an excellent event to take the pulse of a fast-moving field”

**John Ramunas**  
CEO  
**Rejuvenation  
Technologies**



“I look forward to interacting with mRNA and LNP experts from multiple perspectives ranging from discovery and research, preclinical and clinical development, and regulatory authorities”

**Tao Niu**  
Associate Director – Clinical  
& Quantitative Pharmacology  
**Vertex Pharmaceuticals**



“The 3<sup>rd</sup> mRNA-Based Therapeutics Summit presents a wonderful opportunity to hear the latest innovations in the field and to ask questions of the field’s leaders. The presentations also inspire creative thinking and help to identify potential collaborations”

**Theresa Goletz**  
Global Head, Analytical  
Immunology & Cellular Platform  
**GlaxoSmithKline**



“The use of mRNA therapeutics is expanding so rapidly that frequent meetings are necessary to keep up with the latest data and technologies available. We’ve seen that mRNA can be used as a drug product, and this meeting is a way to discuss - what’s next?”

**Dahyana Arias Escayola**  
Scientist – RNA Biology  
**Strand Therapeutics**

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## PHARMA, BIOTECH & INDUSTRY LEADERS



**Michiel Lodder**  
CEO  
20Med Therapeutics



**Walter Schmidt**  
Director - mRNA Division  
ADvantage  
Therapeutics



**Renhuan Xu**  
CEO & Co-Founder  
ARV Technologies



**Petro Terblanche**  
Managing Director  
Afrigen Biologics



**Amin Khan**  
Chief Scientific Advisor  
Afrigen Biologics



**Daryl Drummond**  
CSO & Co-Founder  
Akagera Medicines



**Annette Bak**  
Head of Advanced Drug  
Delivery  
AstraZeneca



**Manmohan Singh**  
CTO  
Beam Therapeutics



**Constanze Blume**  
SVP - Global Regulatory  
Affairs  
BioNTech SE



**Andreas Kuhn**  
SVP - RNA Biochemistry &  
Manufacturing  
BioNTech SE



**Pawel Widomski**  
Senior Director - Global  
Regulatory Affairs CMC  
BioNTech SE



**Michael Wenger**  
VP - Clinical Development  
BioNTech SE



**June Kim**  
CMC Lead  
CEPI



**Arun Kumar**  
Preclinical Vaccines  
Development Lead  
CEPI



**Linda Marban**  
CEO  
Capricor Therapeutics



**AJ Bergmann**  
CFO  
Capricor Therapeutics



**Metin Kurtoglu**  
COO  
Cartesian Therapeutics



**Sonia Golombek**  
Senior R&D Manager  
Elastrin Therapeutics



**Carsten Rudolph**  
CEO  
Ethris



**Marco Cavaleri**  
Head of Office, Health  
Threats & Vaccines  
Strategy  
European Medicines  
Agency (EMA)

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**Gregory Fiore**  
CEO  
Exacis Biotherapeutics



**Lusheng Fan**  
Investigator  
GeneLeap Biotech



**Elaine Peters**  
Director - Analytical -  
Individualized Cell & Gene  
Therapies  
Genentech



**Matthew Hawryluk**  
Executive VP & CBO  
Gritstone Bio



**Tamar Grossman**  
VP - Global Head of RNA &  
Targeted Therapeutics  
Johnson & Johnson



**Yusuf Erkul**  
CEO  
Kernal Bio



**Manfred Kraus**  
VP - R&D  
Kernal Bio



**Francis Poulin**  
VP - eRNA Sciences  
Laronde



**Yu He**  
Director - Analytical  
Research & Development  
Merck & Co



**Mike Zimmer**  
Director - Rare Diseases;  
Rare Research & Preclinical  
Development  
Moderna



**Sonia Stoszek**  
Executive Director &  
Program Lead - RSV  
Vaccines  
Moderna



**Anne Aunins**  
Executive Director &  
Program Lead - COVID-19  
Vaccines  
Moderna



**Antonella Lozito**  
Executive Director -  
Infectious Disease, Global  
Regulatory Strategy  
Moderna



**Curtis Dobrowolski**  
Co-Founder  
Nava Therapeutics



**Bill Grier**  
Associate Director -  
Drug Substance Process  
Development  
Omega Therapeutics



**Gilles Besin**  
CSO  
Orbital Therapeutics



**Daniel Tondera**  
Head of Biology  
Panthera Therapeutics



**Lakshmi Khandke**  
Senior Program Advisor  
PATH



**John Androsavich**  
Global Head - RNA Medicine  
Lead, Emerging Science &  
Innovation  
Pfizer



**Helen McCarthy**  
CEO  
pHion Therapeutics

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## PHARMA, BIOTECH & INDUSTRY LEADERS



**Aleksandra Pastrak**  
CMO  
Providence  
Therapeutics



**Jason Zhang**  
CSO  
RVAC Medicines



**Mohamed ElSayed**  
EVP & CTO  
RVAC Medicines



**Vira Bitko**  
VP & Head of Vaccines  
RVAC Medicines



**Arunan Kaliyaperumal**  
VP - Preclinical  
Biology  
ReCode  
Therapeutics



**Daniella Ishimaru**  
Principal Scientist  
ReCode Therapeutics



**Kathir Muthusamy**  
Associate Director  
Regeneron  
Pharmaceuticals



**Yue Fu**  
Principal Scientist  
Regeneron  
Pharmaceuticals



**John Ramunas**  
CEO  
Rejuvenation  
Technologies



**Nathaniel Wang**  
CEO & Co-Founder  
Replicate Bioscience



**Kathleen Francissen**  
Global Head of  
Regulatory PT Cell &  
Gene Therapies  
Roche



**Daniel Shores**  
Partner  
Rothwell Figg



**Frank DeRosa**  
CTO & Global Head of  
Research - mRNA Center  
of Excellence  
Sanofi



**Gregory Troiano**  
Head of cGMP Strategic  
Supply & Operations  
- mRNA Center of  
Excellence  
Sanofi



**Joshua DiNapoli**  
Global Project Head -  
mRNA Platform  
Development  
Sanofi Pasteur



**Jianmei Kochling**  
Senior Director -  
Analytical Development  
- mRNA Center of  
Excellence  
Sanofi



**Vikram Agarwal**  
Head of mRNA Platform  
Design Data Science - mRNA  
Center of Excellence  
Sanofi



**Pierre Cote**  
Head of Strategic  
Partnerships  
& Innovation  
Management - mRNA  
Center of Excellence  
Sanofi



**Nicholas Manzo**  
Director - CMC  
RNA Vaccines  
Seqirus



**Mohammad Safari**  
Head of Analytical  
Biochemistry  
Seqirus

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## PHARMA, BIOTECH & INDUSTRY LEADERS



**Dahyana Arias Escayola**  
Scientist – RNA Biology  
**Strand Therapeutics**



**Apiwat Wangweerawong**  
Associate Director – LNP Chemistry  
**Tessera Therapeutics**



**Jasdave Chahal**  
Founder & Chief Scientist  
**Tiba Biotech**



**Mustafa Turkoz**  
Head of Immunology  
**Turn Biotechnologies**



**Jan Komrska**  
Contracts Manager – Supply Division  
**UNICEF**



**Peter Marks**  
Director – Center for Biologics Evaluation & Research (CBER)  
**U.S. Food & Drug Administration (FDA)**



**Diane McCarthy**  
Senior Scientific Director – Global Biologics  
**US Pharmacopeia**



**Tao Niu**  
Associate Director – Clinical & Quantitative Pharmacology  
**Vertex Pharmaceuticals**

## ACADEMIC LEADERS



**Philip John Santangelo**  
Assistant Professor  
**Emory University School of Medicine**



**Toni Celià-Terrassa**  
Principal Investigator  
**Hospital del Mar Medical Research Institute (IMIM)**



**Prashant Yadav**  
Professor & Senior Fellow  
**INSEAD & Centre for Global Development**



**Hirohide Saito**  
Professor  
**Kyoto University**



**Simone Spuler**  
Professor  
**Max Delbrück Center for Molecular Medicine & Charité – Universitätsmedizin Berlin; Co-founder, MyoPax**



**Xiaoyuan (Shawn) Chen**  
Professor  
**National University of Singapore**



**Gal Cafri**  
Immunotherapy & Genetic Engineering Group Leader  
**Sheba Medical Center**



**Becki Yi Kuang**  
Assistant Professor  
**The Hong Kong University of Science & Technology**



**Anna Blakney**  
Assistant Professor  
**The University of British Columbia**



**Chantal Pichon**  
Professor  
**University of Orleans**



**Bowen Li**  
Assistant Professor  
**University of Toronto**



**Heinrich Haas**  
Johannes Gutenberg-Universität Mainz

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## LEADING SOLUTION PARTNERS



**Venkata Indurthi**  
CSO  
Aldevron



**Diana Marcantonio**  
Director - Biology  
Applied BioMath



**May Guo**  
VP - Nucleic Acids  
Arranta Bio



**Ioana Panait**  
Lead Analyst - RNA  
Beacon Targeted Therapies



**Scott Alderucci**  
Director - mRNA Process  
Development & GMP  
Curia Global



**David Sokolowski**  
Global Workflow Manager -  
Nucleic Acid Therapeutics  
Cytiva



**Marco Blanchette**  
VP - R&D  
Eclipse  
Bioinnovations



**Jiancun (Larry) Zhang**  
CEO  
Henovcom



**Senthil Ramaswamy**  
Executive Director - R&D;  
CGT  
Lonza



**Sudhakar Voruganti**  
Business Development  
Director  
Pfanstiehl



**Aaron Larsen**  
Senior Director &  
Technical Head  
- Nucleic Acid  
Franchise  
Resilience



**Pierre Catignol**  
EVP & Head of Manufacturing  
Samsung Biologics



**Aleš Štrancar**  
Executive Managing  
Director  
Sartorius BIA  
Separations



**Zhichang Yang**  
Senior Scientist  
Sciex



**Darwin Asa**  
Global Market  
Development Manager  
- Nucleic Acid  
Therapeutics  
Thermo Fisher  
Scientific



**Aditi Mehta**  
Associate Director; Head of  
mRNA Process & Delivery  
MilliporeSigma



**Joshua Bell**  
Senior Director -  
Enterprise Strategy  
Tempus



**Cory Smith**  
Senior Product  
Manager - Nucleic  
Acid Services  
TriLink  
BioTechnologies

“The exchange of thoughts and ideas in the rapidly developing mRNA medicine space is elemental to the field and is made possible by the meeting”

Carsten Rudolph, CEO, Ethris

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Pre-Conference Day Wednesday, July 26		Day One   Thursday, July 27					Day Two   Friday, July 28				
<b>NEW FOR 2023</b> Pre-Conference Focus Day: Next Generation mRNA-Mediated Technologies	Pre-Conference Workshop Day	<b>Opening Plenary: Emergence of mRNA-Based Therapeutics &amp; Vaccines</b> <b>NEW DATA</b>					<b>Morning Plenary: Driving the Vision of the mRNA Regulatory Environment for First-in-Class Therapeutics &amp; Best-in-Class Vaccines</b>				
Focus Day	Workshop A	<b>Biopharma Leaders' Fireside Chat</b>					<b>Morning Networking Break &amp; Poster Session</b>				
<i>Morning Break &amp; Networking</i>		<i>Morning Break &amp; Speed Networking</i>					<i>Morning Break &amp; Speed Networking</i>				
Focus Day	Workshop B	Discovery	Translation	<b>NEW TRACK</b> Clinical Development	Chemistry, Manufacturing & Controls	<b>NEW TRACK</b> Logistics	Discovery	Translation	<b>NEW TRACK</b> Clinical Development	Chemistry, Manufacturing & Controls	<b>NEW TRACK</b> Logistics
<i>Lunch Break &amp; Networking</i>		<i>Lunch Break &amp; Networking</i>					<i>Lunch Break &amp; Networking</i>				
Focus Day	Workshop C	Discovery	Translation	Clinical Development	Chemistry, Manufacturing & Controls	Logistics	Discovery	Translation	Clinical Development	Chemistry, Manufacturing & Controls	Logistics
<i>Lunch Break &amp; Networking</i>		<i>Lunch Break &amp; Networking</i>					<i>Lunch Break &amp; Networking</i>				
Focus Day		<b>Tech Slam</b>					<b>Afternoon Break &amp; Networking</b>				
<i>End of Pre-Conference Day</i>		<b>Afternoon Plenary: Unraveling the Complex mRNA Landscape: Exploring Opportunities for Future Collaborations</b>					<b>Closing Plenary: Harnessing Innovations &amp; Expertise to Grow Your mRNA Company &amp; Progress Therapies to Market</b>				
<i>End of Pre-Conference Day</i>		<i>End of Day One</i>					<i>End of 3<sup>rd</sup> Annual mRNA-Based Therapeutics Summit</i>				

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- TESTIMONIALS
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# PRE-CONFERENCE FOCUS DAY: NEXT GENERATION mRNA-MEDIATED TECHNOLOGIES

WEDNESDAY, JULY 26

## Key Sessions:

- ① Unlocking Novel mRNA Applications for Gene Editing to Uncover New Disease Targets & Improve Therapeutic Efficacy
- ① Advancing Next Generation Precise RNA Cell Engineering to Enable Durable Therapeutic Impact
- ① Modifying mRNA for Synthetic Biology Applications



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# PRE-CONFERENCE FOCUS DAY: NEXT GENERATION mRNA-MEDIATED TECHNOLOGIES | WEDNESDAY, JULY 26

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mRNA's exceptional features such as easy manipulation, rapid and transient expression, and adaptive convertibility, coupled with the mRNA industry now entering an explosive age, mean there is a greater need to find real applications and tools to unlock hard-to-treat diseases. The **Next Generation mRNA-Mediated Technologies Focus Day** will delve into the latest avenues where mRNA application is driving the next wave of innovations including gene therapy, cell therapy and synthetic biology!



## 7.30 Registration & Morning Coffee



## 8.25 Chair's Opening Remarks

### Unlocking Novel mRNA Applications for Gene Editing to Uncover New Disease Targets & Improve Therapeutic Efficacy



## 8.30 Combinatorial Design of Lipid Nanoparticles for Pulmonary mRNA Delivery & Genome Editing

- Discover combinatorial LNP design
- Explore pulmonary mRNA delivery
- Discuss gene editing in the lung

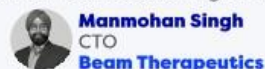


## 9.00 mRNA-Mediated Delivery of CRISPR/Cas9 Tools to Human Muscle Stem Cells in Muscular Dystrophy

- Monogenic muscular dystrophies
- Highly effective and safe mutation corrections by base editing and by classical Cas9
- First-in-human clinical trial in advanced planning (bASKet-trial)

## 9.30 Panel Discussion – Delving into Innovative mRNA Technologies for Gene Editing for Powerful mRNA-Based Treatments

- Leveraging the developments of mRNA-based gene editing to outline the roadmap for future therapeutic avenues
- Discussing key technologies and their relative advantages and drawbacks for gene delivery



## 10.30 Morning Break & Networking

### Advancing Next Generation Precise RNA Cell Engineering to Enable Durable Therapeutic Impact

## 11.30 Transient Epigenetic Reprogramming Rejuvenates T cells & Improves Functionality



- Turn Biotechnologies is evaluating their novel mRNA-based Epigenetic Reprogramming of Aging (ERA™) technology and eTurna Delivery Platform to eliminate manufacturing induced differentiation and accelerated exhaustion of CAR-T cell therapies
- ERA-treated T cells have significantly higher proliferation capacity and enhanced T-cell mediated tumor cell killing by enhancing the Tscm phenotype and reducing exhaustion, while preserving cellular identity
- These data demonstrate that ERA treatment can rejuvenate T cells and result in a more effective, safer drug product, potentially translating to superior patient outcomes, reduced costs, and increased patient accessibility

WELCOME

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# PRE-CONFERENCE FOCUS DAY: NEXT GENERATION mRNA-MEDIATED TECHNOLOGIES | WEDNESDAY, JULY 26

July 26-28, 2023  
Boston, MA



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## 12.00 RNA Cell Therapy in Autoimmune Diseases & Cancer

- RNA cell therapy harnesses the best traits of conventional RNA and DNA-based cell therapy while eliminating their worst. By engineering primary human cells with RNA, there is no concern of immunogenicity induced by RNA or its carrier. The activity of the engineered gene can be controlled by the RNA's natural half-life conferring a high level of safety over the engineered cell product
- Descartes-08 is a prime example of RNA cell therapy, comprised of autologous RNA-engineered Chimeric Antigen Receptor T-cells (CAR T-cells) that target B-cell maturation antigen on plasma cells, with Phase 1/2a trial (NCT04146051) results revealing no CAR T-cell toxicities such as Cytokine Release Syndrome or neurotoxicity
- Cartesian's proprietary RNA Armory platform can engineer primary human cells with multiple RNAs which will allow targeting a disease with multiple biologic pathways

## 12.30 Panel Discussion - Next Generation Cell Therapies with mRNA Technology

- Sharing recent successes and failures of mRNA-based cell therapies to indicate future directions
- Taking learnings from vaccine delivery to enhance efficiency and deliverability *in vivo* and *ex vivo*
- Elucidating the role of RNA engineering and transient vs long term effect in producing versatile therapies



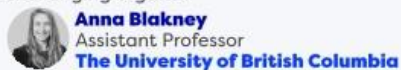
## 1.00 Lunch Break & Networking

### Modifying mRNA for Synthetic Biology Applications

## 2.00 Roundtable Discussion - Optimizing Targeted Delivery & Cell Specificity

- What does targeted delivery success look like?
- What will we make an mRNA therapeutic powerful?
- How can we target the most challenging organs?

Moderators:



## 2.45 Smart mRNA: Designing & Developing the Future of Programmable & Switchable mRNA Tools

- Harnessing genetic circuits in an mRNA therapeutic
- Showcasing the therapeutic potential of mRNA circuits in oncology



## 3.15 Synthetic mRNA Switches & Circuits to Program Cells

- mRNA ON and OFF switch technologies can activate or repress translation of mRNA in specific cell-types
- We also designed microRNA (miRNA) and protein-responsive circRNA switches and circuits
- Synthetic RNA devices provide new insights into RNA engineering and have a potential for RNA synthetic biology and therapies



## 3.45 Chair's Closing Remarks

## 4.00 End of Pre-Conference Focus Day: Next Generation mRNA-Mediated Technologies



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3rd Annual  
**mRNA-Based  
Therapeutics Summit**  
Supercharging the Next Wave of Efficacious mRNA Therapeutics & Vaccines

# PRE-CONFERENCE WORKSHOP DAY

WEDNESDAY, JULY 26

➔ **Workshop A:** LNPs & Beyond – A Drug Delivery Masterclass



➔ **Workshop B:** Unleashing the Potential of Circular RNA – Design, Stability & Immunogenicity



➔ **Workshop C:** Delving into an mRNA Analytical Toolbox – From Drug Substance to Drug Product



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 **Registration & Morning Coffee**

7.30

**Workshop A**

8.30 - 10.30

**LNPs & Beyond – A Drug Delivery Masterclass**

LNPs have demonstrated high efficacy as the vaccine delivery of choice against SARS-CoV-2. The modular nature of LNP formulations and the flexibility of mRNA as a payload provide many pathways to implement these strategies. This drug delivery masterclass will delve into the innovation of LNP formulations and beyond for applications in therapeutics and implications for the success for next-generation biological therapies.

**Join this Masterclass to Address the Following Questions:**

- What will the next generation of LNP drug delivery systems look like?
- How can new delivery vehicles and innovative formulations enable efficient and safe targeting?

**Workshop Leaders:**



**Annette Bak**  
Head of Advanced Drug  
Delivery  
AstraZeneca



**Heinrich Haas**  
Johannes Gutenberg-  
Universität Mainz



**Michiel Lodder**  
CEO  
20Med Therapeutics



**Apiwat Wangweerawong**  
Associate Director – LNP  
Chemistry  
Tessera Therapeutics

 **Morning Break & Networking**

10.30

**Workshop B**

11.00 - 1.00

**Unleashing the Potential of Circular RNA – Design, Stability & Immunogenicity**

mRNA has broad potential for novel medicines, yet, one fundamental limitation to its use is the relatively short half-life in biological systems and eliciting an immunogenic response. Circular RNA is now gaining attention as a novel strategy offering a stable choice, reduced dosing and costs. This workshop will dive into circular RNA chemical and physical properties and applications as a new modality of choice.

**Join this Workshop to Answer:**

- What is the best way to generate circular RNA with superior quality attributes?
- What is the therapeutic potential of the circular RNA platform for vaccines and beyond?

**Workshop Leaders:**



**Francis Poulin**  
VP – eRNA Sciences  
Laronde



**Gilles Besin**  
CSO  
Orbital Therapeutics

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 Afternoon Lunch Break & Networking

1.00

**Workshop C**

2.00 - 4.00

## Delving into an mRNA Analytical Toolbox – From Drug Substance to Drug Product

With the mRNA community seeking clinical validation of their candidates, the industry continues to face challenges in overcoming analytical and bioanalytical hurdles from mRNA sequencing to drug product formulation and manufacturing. This workshop will dive deep into the importance of analytics and how to overcome these challenges creating an all-encompassing toolbox, and sparking conversation to develop safe, stable and effective mRNA therapeutics

**Join this session to discuss:**

- How best to develop CQAs for your mRNA platform of choice
- How can we better use analytics to assess drug substance and product attributes?
- How to trouble shoot and improve analytical value beyond typical manufacturing supports

**Workshop Leaders:**



**Yu He**  
Director – Analytical  
Research &  
Development  
**Merck & Co**



**Mohammad Safari**  
Head of Analytical  
Biochemistry  
**Seqirus**



**Diane McCarthy**  
Senior Scientific  
Director - Global  
Biologics  
**US Pharmacopeia**



**Yue Fu**  
Principal Scientist  
**Regeneron  
Pharmaceuticals**

**End of Pre-Conference Workshop Day**

“The mRNA therapeutics field is advancing so rapidly that meetings like these are one of the best opportunities to stay on top of the developments across the industry”

**Bill Grier**, Associate Director – Drug Substance Process Development, **Omega Therapeutics**

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# DAY ONE

THURSDAY, JULY 27



NEW  
DATA

## MORNING & AFTERNOON PLENARY SESSIONS

- ➔ Emergence of mRNA-Based Therapeutics & Vaccines 2.0
- ➔ Unraveling the Complex mRNA Landscape: Exploring Opportunities for Future Collaborations

## DISCOVERY

- ➔ Engineering Next-Generation mRNA Sequences to Expand Therapeutic Protein Expression
- ➔ Evolving mRNA Drug Substance Design to Optimize Drug Effectiveness

## TRANSLATION

- ➔ Optimizing *In Vivo* Characterization of Onco-Selective mRNA to Improve Tolerability & Immunogenicity
- ➔ Boosting the Development of Lung-Specific mRNA-Based Therapeutics

NEW  
TRACK

## CLINICAL DEVELOPMENT

- ➔ Accelerating the Best-in-Class mRNA-Based Vaccines to Combat New Variants of COVID-19
- ➔ Harnessing mRNA Technology for Novel Cancer Vaccines to Improve Clinical Success

## CHEMISTRY, MANUFACTURING & CONTROLS (CMC)

- ➔ Overcoming mRNA Upstream & Downstream Process Development Hurdles for Efficient Manufacturing
- ➔ Next Generation Strategies for Analytical Considerations for mRNA Drug Product Development

NEW  
TRACK

## LOGISTICS

- ➔ Advancing Supply Chain Hurdles for Optimal Raw Material Availability & Sourcing
- ➔ Improving Cost Effectiveness of mRNA Production & Cold-Chain Storage Requirements for the Ultimate Supply Chain

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## MORNING PLENARY SESSION



7.00 Registration & Morning Coffee



**Gregory Fiore**  
CEO  
Exacis Biotherapeutics

8.05 Chair's Opening Remarks

### Emergence of mRNA-Based Therapeutics & Vaccines 2.0

#### 8.15 Biopharma Leaders' Fireside Chat – Evaluating Progress of mRNA Therapies in 2023: Where are we Succeeding & Where are the Gaps?

- Pose your burning questions to industry pioneers as they discuss the new frontiers in mRNA technology, the hottest indications at the forefront of scientific research, for the next wave of mRNA
- What does the future look like for the next generation of mRNA-based therapeutics for clinically relevant targets?
- Where do we expect new innovations to come from, and what challenges lie ahead?



**Moderator:**  
**Metin Kurtoglu**  
COO  
Cartesian Therapeutics



**Jason Zhang**  
CSO  
RVAC  
Medicines



**Carsten Rudolph**  
CEO  
Ethris



**Helen McCarthy**  
CEO  
pHion Therapeutics



**Frank DeRosa**  
CTO & Global Head  
of Research - mRNA  
Center of Excellence  
Sanofi



**Gilles Besin**  
CSO  
Orbital  
Therapeutics



**Sonia Stoszek**  
Executive Director &  
Program Lead – RSV  
Vaccines  
Moderna

9.00 Moderna's mRNA-1345 Vaccine in Older Adults

- Session Details TBC



**Michael Wenger**  
VP - Clinical  
Development  
BioNTech SE

9.30 BioNTech's Update on mRNA-Based Vaccines & Other mRNA-Based Therapeutics in Clinical Development

- Showcasing two very different mRNA-based vaccines in clinical development
- Leveraging several mRNA-based therapeutics that complement vaccines
- Understand how combinations are key



**Aaron Larsen**  
Senior Director & Technical  
Head - Nucleic Acid  
Franchise  
Resilience

10.00 Assessing the Industry's Landscape & Preparing for the Future

- Evaluate the current challenges the industry faces
- Consider the roadblocks we foresee in the future
- Discuss methods to overcome these challenges and what to watch for



10.30 Morning Break & Speed Networking

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## MORNING SESSION

**Chair Moderator: AJ Bergmann, CFO, Capricor Therapeutics**

### Engineering Next-Generation mRNA Sequences to Expand Therapeutic Protein Expression


#### 11.30 mRNA Sequence Optimization Effect on Protein Expression

- Applying sequence optimization for higher mRNA quality
- Utilizing modified nucleotides
- Optimization for better protein expression

 **Daniella Ishimaru**, Principal Scientist, **ReCode Therapeutics**

#### 12.00 A Comprehensive Approach to the Analysis of mRNA-Based Therapeutics to Assess Structure & Purity

- Quantify plasmid topological forms to ensure starting material quality
- Determine mRNA purity and sequence length with a reliable size estimation
- Reliably identify the different mRNA capping structures as well as distinguish between uncapped and capped structures
- Determine drug efficacy and safety by identifying oxidative impurities in lipid nano particle formulations

 **Zhichang Yang**, Senior Scientist, **Sciex**

#### 12.30 Longevity, the ADvantage Approach

- Session Details TBC

 **Walter Schmidt**, Director – mRNA Division, **ADvantage Therapeutics**

1.00 Lunch Break & Networking

## AFTERNOON SESSION

**Chair Moderator: AJ Bergmann, CFO, Capricor Therapeutics**

### Evolving mRNA Drug Substance Design to Optimize Drug Effectiveness


#### 2.00 Optimizing mRNA Synthesis to Enhance Effectiveness of mRNA Drugs & Vaccines

- Improving tail sequence optimization
- Elevating and prolonging protein production
- Slowing mRNA degradation

 **Becki Yi Kuang**, Assistant Professor, **The Hong Kong University of Science & Technology**

#### 2.30 Development of Novel mRNA Capping Agents Through Nucleoside Modifications

- Innovative and highly efficient trinucleotide capping agents were designed, synthesized and subsequently evaluated transcriptionally and translationally
- Various chemical modifications are performed on the trinucleotide-based capping agent to increase mRNA co-transcription yield, mRNA protein expression efficiency in cells and to reduce innate immunogenicity
- The 3'-N-acetylmethyl modified ribose of a trinucleotide capping agent demonstrated high transcription yield, high (>97%) mRNA capping efficiency, and mRNA with this novel capping agent showed up to 4 times higher protein expression efficiency in head-to-head comparisons with mRNAs with the current marketed trinucleotide capping agent. The novel cap structure also displayed low cytotoxicity and low innate immunogenicity profiles

 **Jiancun (Larry) Zhang**, CEO, **Henovcom**

#### 3.00 Machine Learning Guided mRNA Design for Vaccine Development

- Understand the importance of mRNA codon optimization – learnings from biology
- Deployment and application of multiple algorithms for codon optimization
- Active-learning based modelling for design of experiments guided by our ML

 **Vikram Agarwal**, Head of mRNA Platform Design Data Science - mRNA Center of Excellence, **Sanofi**

3.30 Tech Slam



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## MORNING SESSION

**Chair Moderator: Gregory Fiore, CEO, Exacis Biotherapeutics**

### Optimizing *In Vivo* Characterization of Onco-Selective mRNA to Improve Tolerability & Immunogenicity

#### 11.30 Onco-selective mRNA LNPs Enable a Wide Therapeutic Window in Preclinical Tumor Models

- Hear how mKR-335 mRNA LNPs show high potency even at very low doses in syngeneic tumor models
- mKR-335 mRNA LNPs show high systemic tolerability even at high doses
- Onco-selective mRNA LNPs are a novel, promising modality for immuno-oncology applications

**Manfred Kraus**, VP – R&D, **Kernal Bio**

#### 12.00 Multimodal Real-World Data for Accelerating Translational Research & De-Risking Drug Development: RNA Seq in Precision Oncology

- Harmonized multimodal data sources can help researchers uncover actionable biomarkers and signatures of response or resistance
- Whole transcriptome RNA sequencing unlocks a range of insights beyond the reach of traditional DNA-based methods, facilitating novel fusion detection, alternative splicing events, disease subtyping, and prognostic/ predictive signatures
- Leveraging RNA sequencing data at scale to accelerate development and improve the probability of success of the next class of precision medicines

**Joshua Bell**, Senior Director - Enterprise Strategy, **Tempus**

#### 12.30 LCOR mRNA Therapy for Breast Immuno-Oncology

- Showcasing LCOR mRNA therapy delivery
- Unravelling its application as a specific therapy for antigen presentation stimulation and tumor immunogenicity
- Evaluate the radical benefit in combination with immunotherapy in preclinical models

**Toni Cellà-Terrassa**, Principal Investigator, **Hospital del Mar Medical Research Institute (IMIM)**

1.00 Lunch Break & Networking

## AFTERNOON SESSION

**Chair Moderator: Gregory Fiore, CEO, Exacis Biotherapeutics**

### Boosting the Development of Lung-Specific mRNA-Based Therapeutics

#### 2.00 The Therapeutic Potential of mRNA in the Restoration of Endothelial Cell Function

- Exploring Next-generation PTX\_LNP formulations for delivering PTXmRNA to various tissues and cell types
- Reviewing PTXcLNP enabling target protein expression in the vascular endothelium of the lung via the intravenous delivery
- Case Study: mRNA therapy to prevent lung oedema in Acute Respiratory Distress Syndrome

**Daniel Tondera**, Head of Biology, **Panthera Therapeutics**

#### 2.30 Novel PCR-Based mRNA Drug Substance Manufacturing

- The key factors in mRNA manufacturing and analytics
- Our unique PCR based template generation approach for mRNA synthesis
- Accelerated mRNA development and manufacturing using our approach

**Aditi Mehta**, Associate Director; Head of mRNA Process & Delivery, **MilliporeSigma**

#### 3.00 mRNA-Based Therapeutics for the Lung

- Screening platforms greatly improve the ability to find delivery platforms for the lung
- Combinatorial chemistry approaches can generate lots of new formulations for screening
- Many therapeutic molecules can be expressed in the lung opening the door to many new therapies

**Philip John Santangelo**, Assistant Professor, **Emory University School of Medicine**

3.30 Tech Slam



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## MORNING SESSION

Chair Moderator: Jason Zhang, CSO, RVAC Medicines

### Accelerating the Best-in-Class mRNA-Based Vaccines to Combat New Variants of COVID-19

#### 11.30 COVID-19 mRNA Vaccine Candidate Development at Moderna

- Consistent safety and immunogenicity has been observed with variant-containing bivalent vaccines in both adults and children
- The Omicron BA.4/BA.5 bivalent vaccine showed cross-neutralization of emerging variants of concern
- Booster doses with variant-containing bivalent vaccines protect against infection and severe disease/ hospitalizations, as demonstrated in real-world studies

**Anne Aunins**, Executive Director & Program Lead - COVID-19 Vaccines, Moderna

#### 12.00 Session Reserved for Combined Therapeutics



#### 12.30 PTX-COVID19-B mRNA Vaccine: Phase 2 Immunobridging Study vs. Comirnaty® - Topline Results

- PTX-COVID19-B was generally well-tolerated, with a safety and tolerability profile similar to Comirnaty®
- PTX-COVID19-B demonstrated non-inferiority compared to Comirnaty®, Pfizer's and BioNTech's U.S. FDA-approved mRNA vaccine, with respect to the geometric mean titer (GMT) ratio of neutralizing antibodies observed two weeks after the second of two intramuscular injections
- Based on the positive safety and immunogenicity results from the immunobridging Phase 2 study, Providence plans to initiate a Phase 3 trial in a booster setting

**Aleksandra Pastrak**, CMO, Providence Therapeutics

#### 1.00 Lunch Break & Networking

## AFTERNOON SESSION

Chair Moderator: Jason Zhang, CSO, RVAC Medicines

### Harnessing mRNA Technology for Novel Cancer Vaccines to Improve Clinical Success

#### 2.00 Neoantigen Immunotherapy for Solid Tumors: Molecular Responses & Clinical Benefit in End-stage Patients

- Neoantigens can be delivered to solid tumor patients on an individualized or "off-the-shelf" immunotherapy product basis
- Phase 1/2 data in advanced disease shows clear evidence of immune response and associated clinical benefit
- Neoantigen immunotherapy is likely to drive even greater benefit in earlier-stage patients - these trials are starting

**Matthew Hawryluk**, Executive VP & CBO, Gritstone Bio

#### 2.30 Insights From the Development of mRNA Vaccine Targeting Tumor Mutations

- Development of a personalized mRNA vaccine
- Sharing clinical data from an mRNA vaccine trial
- Discussing future applications of personalized mRNA vaccines

**Gal Cafri**, Immunotherapy & Genetic Engineering Group Leader, Sheba Medical Center

#### 3.00 Panel Q&A - Ask Speakers Your Burning Questions

**Matthew Hawryluk**, Executive VP & CBO, Gritstone Bio

**Gal Cafri**, Immunotherapy & Genetic Engineering Group Leader, Sheba Medical Center

#### 3.30 Tech Slam



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## MORNING SESSION

**Chair Moderator: Amin Khan**, Chief Science Advisor, **Afrigen Biologics**

### Overcoming mRNA Upstream & Downstream Process Development Hurdles for Efficient Manufacturing

#### 11.30 Harnessing Plasmid DNA Manufacturing to Improve Quality & Impact on mRNA Drug Substance in the *In Vitro* Transcription Reaction

- Linearized plasmid quality is critical for mRNA production through *in vitro* transcription
- Plasmid linearization condition needs to be optimized sequence by sequence
- Optimized *in vitro* transcription can improve mRNA quality

**Lusheng Fan**, Investigator, **GeneLeap Biotech**

#### 12.00 Overcoming Bottlenecks in mRNA Manufacturing

- Addressing challenges in the mRNA ecosystem: Key considerations for plasmid supply chain issues, IVT difficulties, purification practicalities, encapsulation, cold chain, and more
- Advancing mRNA molecules from the clinic to commercialization amidst rising expectations for mRNA vaccines and therapeutics
- Applying the Power of One to successfully and optimally manufacture mRNA therapeutics

**Pierre Catignol**, EVP & Head of Manufacturing, **Samsung Biologics**

#### 12.30 Overcoming Scale-Up & Tech Transfer Hurdles in mRNA Manufacturing

- Delving into key considerations when moving from the lab to the suite
- Processing intermediate stability studies
- Implementing process controls

**Bill Grier**, Associate Director - Drug Substance Process Development, **Omega Therapeutics**

1.00 Lunch Break & Networking

## AFTERNOON SESSION

**Chair Moderator: Amin Khan**, Chief Science Advisor, **Afrigen Biologics**

### Next Generation Strategies for Analytical Considerations for mRNA Drug Product Development

#### 2.00 Analytical Characterization of mRNA-based Therapeutics & Vaccines

- As a still-new technology for therapeutics and vaccines, the critical quality attributes for mRNA need further refinement
- For this, it is important to characterize mRNA as well as possible, and correlate this to its functionality
- Here, a set of assays for the characterization of mRNA will be presented

**Andreas Kuhn**, SVP - RNA Biochemistry & Manufacturing, **BioNTech SE**

#### 2.30 Key Considerations for mRNA Process Optimization to Accelerate Path to Clinic

- An overview of the role of template DNA and its design
- Assessing key parameters
- Understanding the importance of analytical development

**Venkata Indurthi**, CSO, **Aldevron**

#### 3.00 Harnessing the Power of Capillary Electrophoresis for the Analytical Characterization of mRNA

- Determining purity utilizing Liquid Chromatography (LC) and Capillary Electrophoresis (CE) based platforms
- Assessing the viability of multiple CE-based instruments for the analytical characterization of mRNA
- Challenges and considerations related to the development of analytical electrophoretic methods

**Kathir Muthusamy**, Associate Director, **Regeneron Pharmaceuticals**

3.30 Tech Slam



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## MORNING SESSION

**Chair Moderator: Petro Terblanche**, Managing Director, **Afrigen Biologics**

### Advancing Supply Chain Hurdles for Optimal Raw Material Availability & Sourcing

#### 11.30 Opportunities for mRNA Supply Chain

- Progression in formulations and thermostability
- Commercializing the raw material supply chain
- Evaluating process innovations


 **Gregory Troiano**, Head of cGMP Strategic Supply & Operations - mRNA Center of Excellence, **Sanofi**

#### 12.00 Session Reserved for Ziccum



#### 12.15 Round Table Discussion – Revolutionizing Pandemic Response: Harnessing the Power of mRNA Innovations to Achieve 100 days Mission of Vaccines Development

- How can mRNA platform technology be leveraged to further accelerate vaccine development and compress timelines?
- What unique innovations are needed to address current challenges of mRNA technology?
- What kind of global collaborations, ecosystem, partnerships are needed to achieve the 100-day mission of vaccine development?

 **Arun Kumar**, Preclinical Vaccines Development Lead, **CEPI**



#### 1.00 Lunch Break & Networking


## AFTERNOON SESSION

**Chair Moderator: Petro Terblanche**, Managing Director, **Afrigen Biologics**

### Improving Cost Effectiveness of mRNA Production & Cold-Chain Storage Requirements for the Ultimate Supply Chain

#### 2.00 Messenger RNA Bioproduction

- How can we reduce the supply chain for a cost-effective process?
- How can we maintain quality in the bio process?
- What are the main challenges to overcome?


 **Chantal Pichon**, Professor, **University of Orleans**

#### 2.30 Building Ultra-Low Cold chain Capacity in Developing Countries

- Ultra-low storage capacity for mRNA vaccine was inexistent in majority of countries outside global north at the beginning of 2021
- UNICEF procured, delivered and installed over 900 ultralow freezers in over 70 countries during 6 months period (July – Dec 2021) with a capacity to store over 200 million doses of mRNA vaccines
- The effort continued throughout 2022 with training additional capacity building and maintenance training for MoH staff. Our focus is to maintain the capacity and to stay prepared for the next pandemic

 **Jan Komrska**, Contracts Manager – Supply Division, **UNICEF**

#### 3.00 Panel Q&A – Ask Speakers Your Burning Questions

 **Chantal Pichon**, Professor, **University of Orleans**

 **Jan Komrska**, Contracts Manager – Supply Division, **UNICEF**



#### 3.30 Tech Slam



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# DAY ONE | THURSDAY, JULY 27

July 26-28, 2023  
Boston, MA



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## AFTERNOON PLENARY SESSION

 **Tamar Grossman**  
VP - Global Head of RNA & Targeted Therapeutics  
**Johnson & Johnson**

**Afternoon Chair Moderator**

### Unraveling the Complex mRNA Landscape: Exploring Opportunities for Future Collaborations

#### 4.00 Biopharma Partnerships Panel – Exploring the Future of mRNA Investment & Collaborations

The biopharmaceutical sector is considering mRNA-based drugs as a vital component. This community thrives on strategic alliances, which allow for cross-functional sharing of knowledge, skills, and experience across different disciplines to truly advance mRNA technologies to accelerate drug development to patients faster. This session is your ideal opportunity to ask your burning questions to a leading biopharma panel in pursuit of sharing their business insights on partnerships in this space.

- Exploring the complexities, risk, and decision-making strategies for developing, acquiring, and advancing innovative approaches
- Where are the gaps in using mRNA approaches, that can be filled by the biotechnology sector?
- Developing successful expertise in house vs asset acquisition partnering strategies

 **Moderator:**  
**AJ Bergmann**  
CFO  
**Capricor Therapeutics**

 **Matthew Hawryluk**  
Executive VP & CBO  
**Gritstone Bio**

 **Nathaniel Wang**  
CEO & Co-Founder  
**Replicate Bioscience**

 **June Kim**  
CMC Lead  
**CEPI**

 **Pierre Cote**  
Head of Strategic Partnerships & Innovation Management - mRNA  
Center of Excellence  
**Sanofi**

 **Tamar Grossman**  
VP - Global Head of RNA & Targeted Therapeutics  
**Johnson & Johnson**

 **John Androsavich**  
Global Head, RNA Medicine Lead - Emerging Science & Innovation  
**Pfizer**

 **David Sokolowski**  
Global Workflow Manager - Nucleic Acid Therapeutics  
**Cytiva**

#### 4.45 When Molecules Grow Up: Adaptations & Considerations for Your Manufacturing Strategies

- mRNA technology has changed the way therapies are developed. The overall potential of mRNA is clear, with mRNA therapeutic development in many research areas. Investing in innovation brings uncertainties - much of the current equipment used in manufacturing is repurposed from the biotech industry, and designed for much larger scales than is required for mRNA
- Considering manufacturability and scale-up from the beginning will help to deliver process efficiency and scalability along the spectrum of mRNA products
- Consider strategies to future proof your mRNA manufacturing, from vaccines to therapeutics and beyond

 **Ioana Panait**  
Lead Analyst - RNA  
**Beacon**

#### 5.15 A Look at the Past, Present & Future of mRNA Therapeutics

- Reviewing the progress of the RNA Landscape
- Sharing an analysis of the current mRNA therapeutic and clinical space
- Discussing the future of mRNA therapies

 **Tamar Grossman**  
VP - Global Head of RNA & Targeted Therapeutics  
**Johnson & Johnson**

#### 5.45 Chair's Closing Remarks

#### 5.50 End of Day One

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3rd Annual  
**mRNA-Based  
Therapeutics Summit**  
Supercharging the Next Wave of Efficacious mRNA Therapeutics & Vaccines

# DAY TWO

FRIDAY, JULY 28



## MORNING & AFTERNOON PLENARY SESSIONS

- ➔ Driving the Vision of the mRNA Regulatory Environment for First-in-Class Therapeutics & Best-in-Class Vaccines
- ➔ Harnessing Innovations & Expertise to Grow Your mRNA Company & Progress Therapies to Market

## DISCOVERY

- ➔ Unravelling Novel LNP Screening & Formulation for Delivery of mRNA-Based Therapeutics 2.0
- ➔ Unleashing Novel Delivery Vehicles Beyond LNP's to Enable Tissue Selectively & Specificity

## TRANSLATION

- ➔ Harnessing the Best *In Vitro* & *In Vivo* Models for Improved Safety & Efficacy Studies for Vaccine Success
- ➔ Translating Preclinical to Clinical Success for Protein Replacement mRNA-Based Therapeutics

NEW TRACK

## CLINICAL DEVELOPMENT

- ➔ Advancing Strategies for Preclinical to Clinical Development Success in mRNA-Based Therapeutics for Rare Diseases
- ➔ Clinical Development of the Next Wave of mRNA-Based Vaccines To Tackle Global Infectious Diseases & Future Pandemics

## CHEMISTRY, MANUFACTURING & CONTROLS (CMC)

- ➔ Translational & Scalable Manufacturing of mRNA-Based Vaccines & Therapeutics Through to Commercialization
- ➔ Overcoming CMC Challenges to Accelerate Production & Development of mRNA Drugs at Scale

NEW TRACK

## LOGISTICS

- ➔ Plan, Source, Make & Deliver - Enhancing mRNA Drug Sustainability & Equity on a Global Scale
- ➔ Scaling Up Supply - From Bench-to-Bench Side for a Sustainable mRNA Industry

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# DAY TWO | FRIDAY, JULY 28

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## MORNING PLENARY SESSION



7.30 Morning Coffee



**Elaine Peters**  
Director – Analytical – Individualized Cell & Gene Therapies  
**Genentech**

8.20 Chair's Opening Remarks

### Driving the Vision of the mRNA Regulatory Environment for First-in-Class Therapeutics & Best-in-Class Vaccines



**Peter Marks**  
Director – Center for Biologics Evaluation & Research (CBER)  
**U.S. Food & Drug Administration (FDA)**

8.30 Regulation of the Next Generation of mRNA Vaccines Targeting Infectious Diseases

#### 9.00 Panel Discussion: An Industry Perspective into the mRNA Regulatory Landscape for Next Generation mRNA Vaccines & Therapeutics

- Overview of the regulatory environment and regulatory strategy for mRNA vaccines
- The differences in regulatory requirements for the various mRNA products – Vaccines vs therapeutic drugs



**Moderator: Antonella Lozito**  
Executive Director - Infectious Disease, Global Regulatory Strategy  
**Moderna**



**Peter Marks**  
Director – Center for Biologics Evaluation & Research (CBER)  
**U.S. Food & Drug Administration (FDA)**



**Marco Cavaleri**  
Head of Office, Health Threats & Vaccines Strategy  
**European Medicines Agency (EMA) (Virtual)**



**Constanze Blume**  
SVP - Global Regulatory Affairs  
**BioNTech SE**



**Pawel Widomski**  
Senior Director - Global Regulatory Affairs CMC  
**BioNTech SE**



**Kathleen Francissen**  
Global Head of Regulatory PT Cell & Gene Therapies  
**Roche**



**Darwin Asa**  
Global Market Development Manager - Nucleic Acid Therapeutics  
**Thermo Fisher Scientific**

9.45 Is "GMP Grade" Good Enough? Choosing Materials for Producing mRNA Therapeutics

- Session Details TBC

#### 10.15 Late Breaking Abstracts

3 posters will be selected to take part in 5-minute rapid fire presentations to showcase their late breaking abstracts in front of the mRNA community



**Aleš Štrancar**  
Executive Managing Director  
**Sartorius BIA Separation**

10.30 Speeding mRNA Process Development & Securing Robust Manufacturing by Using Fast in-Process Analytics

- Overview of chromatographic toolbox for in-process analytics of mRNA process development and manufacturing
- Enabling continuous IVT by using PATfix analytics
- New analytical tools for characterization and optimization of mRNA LNP formation



11.00 Morning Break & Networking Poster Session

As the landscape of innovation is supercharging the next wave of efficacious mRNA vaccines and therapeutics, it is more important than ever to collaborate and learn to facilitate the growth of this field. Join our dedicated poster session to share your latest data and have first look into your peers' work!

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## MORNING SESSION

**Chair Moderator: Manmohan Singh, CTO, Beam Therapeutics**

### Unraveling Novel LNP Screening & Formulation for Delivery of mRNA-Based Therapeutics 2.0

#### 11.30 Optimizing LNP Libraries & High-Throughput *In Vivo* Screens to Unravel Novel LNPs for mRNA Delivery

- Using Oligo-tagged LNPs to discover novel LNPs
- Harnessing scRNA sequencing of transcriptome and LNP delivery
- Understanding how these are used to discover LNPs that target hard-to-characterize cell types

 **Curtis Dobrowolski**, Co-Founder, **Nava Therapeutics**

#### 12.00 RNA Genomic Technologies: Accelerating RNA Therapeutics

- Advancements in SHAPE-MaP technologies: eSHAPE platform, for structure analysis of IVT RNA and transcriptome-wide data
- Highlighting alternative approaches to ribosomal profiling: eRibo platform, high throughput methods for profiling protein translation
- Providing a comprehensive target interrogation: A cross system approach to allow multidimensional view of transcripts

 **Marco Blanchette**, VP - R&D, **Eclipse Bioinnovations**

#### 12.30 Drug Delivery for Non-Viral Gene Therapies

- Design, make, test and analyze automated selection of nano-particle systems for RNA delivery
- Sharing a lipid nanoparticle case study
- Discussing a polymeric nano-particle case study

 **Annette Bak**, Head of Advanced Drug Delivery, **AstraZeneca**

1.00 Lunch Break & Networking

## AFTERNOON SESSION

**Chair Moderator: Manmohan Singh, CTO, Beam Therapeutics**

### Unleashing Novel Delivery Vehicles Beyond LNPs to Enable Tissue Selectivity & Specificity

#### 2.00 Delivery of a Therapeutic mRNA Vaccine for HPV Using a Peptide

- Developing mRNA vaccines utilizing RALA, a 30-mer cationic amphipathic helical peptide, for HPV-16 driven cervical cancer and squamous cell head and neck carcinomas
- Using a blend of three mRNA, the pre-clinical development plan examines the mode of action, appropriate modification of the mRNA, the immune and therapeutic responses. The chemistry and manufacturing plan determined the key quality attributes of the product, scale-up of the vaccine and a route to manufacture
- Presenting the first toxicology results of this RALA/mRNA vaccine

 **Helen McCarthy**, CEO, **pHion Therapeutics**

#### 2.30 Session Reserved for Mercury Bio



#### 3.00 Polymer-Based Cancer mRNA Delivery

- Leveraging the key to design mRNA delivery vehicles
- Evaluating the pros and cons of polymer over lipid nanoparticles in mRNA delivery
- Applying mRNA nanoformulas as a cancer nanovaccine and protein replacement therapy

 **Xiaoyuan (Shawn) Chen**, Professor, **National University of Singapore**

#### 3.30 Engineered Exosomes to Deliver Nucleic Acids & Other Molecules for Therapeutic Development

- Harnessing exosomes as a drug delivery system
- Unlocking therapeutic development and clinical applications of exosome-based products
- Evaluating methods for loading nucleic acids into exosomes

 **Linda Marban**, CEO, **Capricor Therapeutics**

4.00 Afternoon Break & Networking

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## MORNING SESSION

**Chair Moderator: Yusuf Erkul, CEO, Kernal Bio**

### Harnessing the Best *In Vitro* & *In Vivo* Models for Improved Safety & Efficacy Studies for Vaccine Success

#### 11.30 Optimization of Novel Self-Amplifying RNA Vectors

- Historically, saRNA vectors have been derived from VEEV, SFV and Sindbis viruses despite a rich landscape of potential backbones
- Investigating novel saRNA vectors and characterize their replication and protein expression profiles both *in vitro* and *in vivo*
- Exploring the 'sweet spot' for replication, and how different vectors may be more amenable to vaccine or therapeutic applications

**Anna Blakney**, Assistant Professor, **The University of British Columbia**

#### 12.00 Update in the Development of RSV mRNA Vaccine

- Despite recent successes in RSV vaccine development, there is still a need to develop an efficacious RSV vaccine for the elderly, infants, and maternal immunization
- Hear how RVAC's RSV mRNA vaccine is shown to be efficacious and safe in a preclinical model
- Showcasing current clinical development which is now underway

**Vira Bitko**, VP & Head of Vaccines, **RVAC Medicines**

#### 12.30 Design & Preclinical Evaluation of a Broad HSV-2 mRNA Vaccine

- HSV-2 mRNA vaccine elicits a robust neutralizing antibody and T-cell response
- The LNP formulation of HSV-2 mRNA vaccine can be delivered *in vivo* at low doses
- This results in broad protection against HSV-2 and HSV-1 infection

**Renhuan Xu**, CEO & Co-Founder, **ARV Technologies**

1.00 Lunch Break & Networking

## AFTERNOON SESSION

**Chair Moderator: Yusuf Erkul, CEO, Kernal Bio**

### Translating Preclinical to Clinical Success for mRNA-Based Therapeutics

#### 2.00 Immuno-Modulation & mRNA-Based Protein Replacement Therapy for Treatment of Pulmonary Disease

- Using mRNA for immuno-modulation of lung tissue to treat infectious diseases
- The role of mRNA in replacement of missing or dysfunctional proteins in lung tissue for treatment of genetic lung diseases
- Addressing solutions for LNP stabilization to overcome limitations of thermostability, mechano-stability and aerosol delivery

**Carsten Rudolph**, CEO, **Ethris**

#### 2.30 Applications of a QSP Model of LNP mRNA delivery for the Treatment of Crigler-Najjar Syndrome Type 1

- Crigler-Najjar syndrome type 1 (CN1) is an autosomal recessive disease caused by a marked decrease in uridine-diphosphate-glucuronosyltransferase (UGT1A1) enzyme activity with limited treatment options
- In this talk, we will discuss the application of quantitative systems pharmacology (QSP) modeling to the design and development of an LNP-delivered mRNA gene therapy for the treatment of CN1
- We will cover two case studies, how the "LNP-encapsulated mRNA targeting an intracellular protein *in vivo*" model in Applied BioMath Assess™ was used to explore key design features for an LNP-delivered mRNA gene therapy, and how a similar QSP model was developed and calibrated to data from a Gunn rat animal model and used for preclinical-to-clinical translation and FIH dose projections

**Diana Marcantonio**, Director - Biology, **Applied BioMath**

#### 3.00 Delivery of Tropoelastin mRNA for the Regeneration of Elastic Tissues

- An overview of elastin and pathogenesis
- Application of synthetic mRNA delivery for protein replacement therapies
- Sharing the results of synthetic TE mRNA delivery for regeneration of elastic tissues

**Sonia Golombek**, Senior R&D Manager, **Elastrin Therapeutics**

#### 3.30 Telomerase mRNA as a Therapy for Interstitial Lung Disease

- Telomerase mRNA can reverse a decade of telomere shortening with a single dose
- Short telomeres underlie the etiology of interstitial lung disease
- Telomerase mRNA is safe and effective in preclinical animal models

**John Ramunas**, CEO, **Rejuvenation Technologies**

4.00 Afternoon Break & Networking

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## MORNING SESSION

**Chair Moderator: Michael Wenger, VP - Clinical Development, BioNTech SE**

### Advancing Strategies for Preclinical to Clinical Development Success in mRNA-Based Therapeutics for Rare Diseases

#### 11.30 Discovery to Clinic: mRNA as a Potential Treatment for Rare Disease

- Evaluating the construct selection process
- Assessing delivery options
- Setting the clinical dose

**MODERATOR: Mike Zimmer, Director - Rare Diseases; Rare Research & Preclinical Development, Moderna**

#### 12.00 Clinical Immunogenicity of LNP-Encapsulated RNA Therapeutics & Impact on Drug Development

- Summarizing the clinical immunogenicity of approved and investigational LNP-encapsulated RNA therapeutics
- Outlining the impact of clinical immunogenicity on the development strategy
- Delving into regulatory considerations related to immunogenicity assessment

**MODERATOR: Tao Niu, Associate Director - Clinical & Quantitative Pharmacology, Vertex Pharmaceuticals**

#### 12.30 Preclinical Study Considerations for mRNA-Based Therapeutics to Initiate Successful Clinical Studies

- Areas to focus in preclinical studies that will enable better translation to clinical outcome
- Evaluating the safety parameters that allow making an informed decisions for the clinical design
- Sharing good practices to include in preclinical assessments

**MODERATOR: Arunan Kalyaperumal, VP - Preclinical Biology, ReCode Therapeutics**

**1.00 Lunch Break & Networking**

## AFTERNOON SESSION

**Chair Moderator: Michael Wenger, VP - Clinical Development, BioNTech SE**

### Clinical Development of the Next Wave of mRNA-Based Vaccines To Tackle Global Infectious Diseases & Future Pandemics

#### 2.00 Moving Towards a "Best-in-Class" Platform for mRNA-Based Vaccines & Beyond

- Showcasing key platform features for vaccines and beyond
- Presenting translational models used by Sanofi, and preclinical data supporting the current Sanofi platform
- Reviewing clinical data supporting the current Sanofi platform

**MODERATOR: Joshua DiNapoli, Global Project Head - mRNA Platform Development, Sanofi Pasteur**

#### 2.30 Session Reserved for Precision NanoSystems



#### 3.00 Next Generation Self-Replicating RNA Enable Next Wave of Complex Infectious Disease Vaccines

- Next generation srRNA vectors provide enhanced durability for antibody responses and superior T cells
- srRNA enable very low doses in conventional two dose regimens as well as single dose regimens
- Low doses lead to correspondingly lower levels of molecules associated with reactogenicity

**MODERATOR: Nathaniel Wang, CEO & Co-Founder, Replicate Bioscience**

#### 3.30 Developing Next Generation mRNA Vaccines using Ligand-Directed Targeting to Immune Cells

- Presenting a novel approach to engineering a COVID-19 vaccine with both T-cell and antibody mRNA components
- Use of small molecule ligands as cost-effective and highly efficient targeting moieties for lipid nanoparticles (LNPs)
- Inclusion of novel ionizable cationic lipids with reduced propensity for oxidative degradation

**MODERATOR: Daryl Drummond, CSO & Co-Founder, Akagera Medicines**

**4.00 Afternoon Break & Networking**

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## MORNING SESSION

**Chair Moderator: Jianmei Kochling**, Senior Director – Analytical Development  
– mRNA Center of Excellence, **Sanofi**

### Translational & Scalable Manufacturing of mRNA-Based Vaccines & Therapeutics Through to Commercialization

#### 11.30 Overcoming the Evolving Challenges in mRNA

- Process Advancements - IVT and capping reactions are not universal and must be finely tuned to each molecule based on composition, structure and size. Using the literature and experimental design, tailoring each reaction to fit the molecule
- Analytical Approaches - Baseline testing methods are not always well defined by industry or regulatory boards, therefore creative approaches and different angles must be taken to address the importance of getting accurate data back for measuring contaminants, as well as defining your product most comprehensively
- Success Stories - Details of process changes that lead to positive results for these defined molecules including the platform approaches taken to meet each program need in a timely manner

**Scott Alderucci**, Director - mRNA Process Development & GMP, **Curia Global**

#### 12.00 mRNA Therapeutics for Small Patient Populations: Overcoming Analytical & Process Development Scale-Up Challenges

- mRNA therapeutics use highly versatile technology. Changes in the RNA sequence are relatively simple to implement resulting in a versatile platform manufacturing process that can target a variety of sequences and conditions, including both small patient populations and individualized/personalized treatments
- A different approach is needed to scale up analytical and process development for clinical development and potential commercialization of these types of therapeutics
- Control system designs to overcome these challenges will be presented

**Elaine Peters**, Director – Analytical – Individualized Cell & Gene Therapies, **Genentech**

#### 12.30 Trehalose & Sucrose: Essential Components of Platform Biopharma Formulations & COVID-19 applications

- An introduction to Pfanstiehl and its high quality/purity GMP components
- Analyzing essential components of a “Platform Biopharma Formulation”
- Understanding important physicochemical properties of Trehalose and Sucrose. Purity, quality, and consistency of Pfanstiehl’s trehalose and sucrose
- Pfanstiehl’s Biopharma Stabilization Portfolio including newly launched amino acids

**Sudhakar Voruganti**, Business Development Director, **Pfanstiehl**

12.45 Lunch Break & Networking

## AFTERNOON SESSION

**Chair Moderator: Jianmei Kochling**, Senior Director – Analytical Development  
– mRNA Center of Excellence, **Sanofi**

### Overcoming CMC Challenges to Accelerate Production & Development of mRNA Drugs at Scale

#### 2.00 Building a Self-Amplifying mRNA Vaccine Platform for Influenza

- Harnessing opportunities of sa-mRNA against Influenza
- CMC considerations in sa-mRNA development to Influenza
- Evaluating challenges and opportunities of sa-mRNA beyond Influenza

**Nicholas Manzo**, Director – CMC RNA Vaccines, **Seqirus**

#### 2.30 Overcoming mRNA Process Optimization & Scalability: Challenges for mRNA Therapeutic Development

- Process optimization and scalability of mRNA products can prove challenging.
- Discussing some of these challenges and solutions through the evaluation of factors and responses during development, scale-up, and *in-vivo* testing
- Through process optimization we can positively influence different quality attributes of an mRNA drug substance

**Trilink Biotechnologies**

#### 3.00 Round Table Discussion - mRNA Platform Requirements & Development of a Scalable Production Process to Support Early Phase Clinical Trials & Advance a Commercialized Process

- How can we effectively scale mRNA-based vaccines from bench to bedside?
- How can we leverage the same or similar manufacturing process and methods for different mRNA sequences?
- What does scale mean for therapeutics and what size matters most?
- How to apply considerations for manufacture of personalized mRNA-based vaccines and therapeutics

**Moderated By: Nicholas Manzo**, Director – CMC RNA Vaccines, **Seqirus**

4.00 Afternoon Break & Networking

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## MORNING SESSION

### Plan, Source, Make & Deliver – Enhancing mRNA Drug Sustainability & Equity on a Global Scale

#### 11.30 Improving mRNA Sustainability with Efficient & Equitable Manufacturing & Supply

- Innovation – Exploring innovative design of mRNA construct, critical reagents and novel processes to improve speed, cost and stability
- Speed – CEPI's 100 days aspiration and strategy for emergency response
- Beyond Covid – disease X and exemplary vaccines against priority pathogens

**June Kim**, CMC Lead, **CEPI**

#### 12.00 mRNA Hub Technology Transfer Program: A Cost-Effective Platform for mRNA Vaccine Innovation in LMICs

- Unlocking mRNA vaccine design, development and production geared to enable LMICs to produce mRNA products
- Establishing a “green fields” mRNA end to end commercial production process
- Product innovations for effective, affordable and accessible mRNA vaccines for neglected diseases suitable for LMICs and relevance to pandemic preparedness

**Petro Terblanche**, Managing Director, **Afrigen Biologics**

**Amin Khan**, Chief Science Advisor, **Afrigen Biologics**

#### 12.30 Challenges & Strategic Approaches in the Development of mRNA Vaccines for LMICs

- Discuss key challenges related to scale up of processes, implementation of novel analytical methods, availability of raw materials and cost
- Approaches to leverage and support cost effective new technologies and transfer to LMICs for development and regulatory approval of safe and efficacious mRNA-based therapeutics and vaccines.
- Planning for readiness to obtain WHO Pre-Qualification in a timely manner to ensure global delivery of vaccines

**Lakshmi Khandke**, Senior Program Advisor, **PATH**

#### 12.45 Lunch Break & Networking

## AFTERNOON SESSION

### Scaling Up Supply – From Bench-to-Bench Side for a Sustainable mRNA Industry

#### 2.00 Scaling Up Supply from Laboratory to Facility with Equipment, Tech Transfer & Consumables to Match Global Supply & Demand

- Creating GMP suppliers early in the development cycle
- Integrating multiple processes within the organization vs managing multiple vendors- pros and cons of cost vs complexity
- Collaborating to compete-Figuring out which parts to leverage industry networks, and which parts to focus for your company
- Planning supply networks to address global demand vs only high-income country demand.

**Prashant Yadav**, Professor & Senior Fellow, **INSEAD & Centre for Global Development**

#### 2.30 Round Table Discussion – Streamlining Best Practices for mRNA- Based Therapeutics Across the Supply Chain

- How can we accelerate supply chain platforms using innovative technologies, and what are the applications for commercial opportunities?
- How to define a supply chain roadmap and work collaboratively?
- What role do key stakeholders play?



**Moderated By: Prashant Yadav**, Professor & Senior Fellow, **INSEAD & Centre for Global Development**

#### 3.30 Afternoon Break & Networking

“The 3<sup>rd</sup> mRNA-Based Therapeutics Summit creates a unique opportunity for socializing and exchanging of knowledge among the experts in the mRNA field”

**Mohammad Safari**, Head of Analytical Biochemistry, **Seqirus**

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## AFTERNOON PLENARY SESSION



**Yusuf Erkul**  
CEO  
Kernal Bio

### Afternoon Chair Moderator

## Harnessing Innovations & Expertise to Grow Your mRNA Company & Progress Therapies to Market



**May Guo**  
VP - Nucleic Acids  
Arranta Bio

### 4.30 Moving mRNA from the Research Lab to Commercial Manufacturing

- Considerations for mRNA design and manufacturing
- Scaling up mRNA synthesis from tubes-in-water-bath to bioreactors
- Optimizing IVT to reduce dsRNA and improve potency



**Daniel Shores**  
Partner  
Rothwell Figg

### 5.00 The IP Landscape in the mRNA Space: Winning with Knowledge, Strategy & Innovation

- Providing an overview of the IP landscape in the mRNA space
- Sharing key strategies to operate, collaborate and win
- Evaluating innovation approaches and trends



**Yusuf Erkul**  
CEO  
Kernal Bio

### 5.30 Chair's Closing Remarks

### 5.40 End of 3<sup>rd</sup> Annual mRNA-Based Therapeutics Summit



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100+ EXPERT SPEAKERS

AGENDA AT A GLANCE

PRE-CONFERENCE FOCUS DAY

PRE-CONFERENCE WORKSHOP DAY

DAY ONE

DAY TWO

PARTNERS

PARTNERSHIP OPPORTUNITIES

PRICING & REGISTRATION



REGISTER NOW



# TAKE THE SPOTLIGHT & PARTNER WITH US

Are you looking to partner with pioneering mRNA-based therapeutic and vaccine drug developers, eager to tackle the biggest challenges facing the field today?

The **3<sup>rd</sup> mRNA-Based Therapeutics Summit** is your premium opportunity to showcase your expertise, raise brand awareness, and benchmark yourself as a thought-leader and solutions provider within the mRNA community.

Partner with the ultimate networking platform to demonstrate how your business can empower key leaders from the mRNA field to overcome the hurdles of mRNA engineering, delivery, clinical development, drug product manufacturing and market access to accelerate their R&D platforms for next generation mRNA-based therapeutics and vaccines.

-  Benefit from Market Intelligence
-  Meet and Network with Industry Pioneers from **Pfizer, BioNTech, Moderna** and more!
-  Position Yourself as an Industry Expert in the mRNA Field
-  Raise Your Brand Awareness
-  Generate Commercial Collaborations



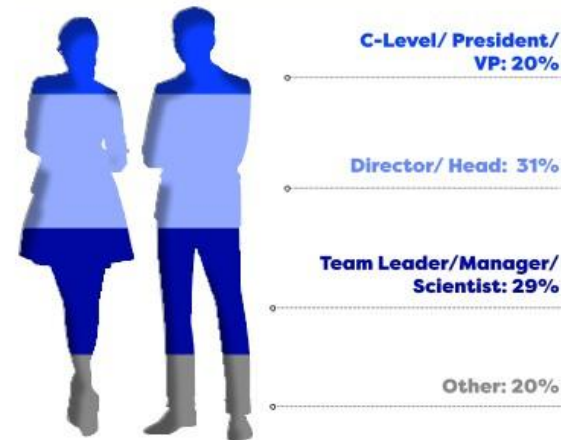
**Alex Kaczykowski & Nicholas Ramovic**  
Senior Partnerships Directors  
T: +1 617 455 4188 | E: sponsor@hansonwade.com



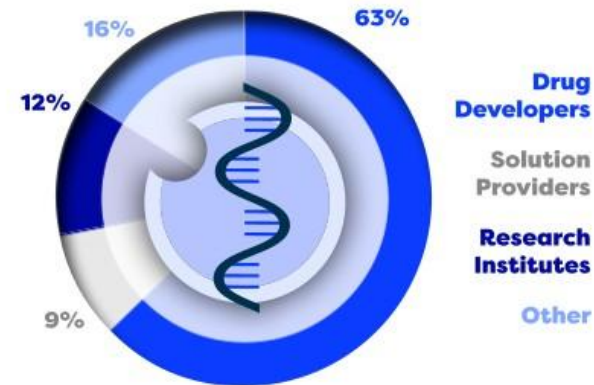
July 26-28, 2023  
Boston, MA



## Attendees by Seniority\*



## Attendees by Company Type\*



\*Based on the 2<sup>nd</sup> mRNA-Based Therapeutics Summit.

REGISTER BY MAY 19 & SAVE UP TO \$950

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# READY TO REGISTER?

Ensure your team get maximum benefit from this 3-day, 5-track meeting by taking advantage of our group discounts. Send your team to ensure you don't miss any content from the tracked agenda, or numerous networking opportunities!

## Team Discounts\*\*\*

- 10% discount – 3+ Attendees
- 15% discount – 5+ Attendees
- 20% discount – 7+ Attendees

\*To be eligible for this price, the group or individual must be from a biotech or pharma company that has a publicly available pipeline, and does not offer pay for services.

\*\*To be eligible for this price, the group or individual must be full-time academic(s).

\*\*\*Please note that discounts are only valid when three or more delegates from one company book and pay at the same time.

Discounts cannot be used in conjunction with any other offer or discount. Only one discount offer may be applied to the current pricing rate.

-  **DISCOVER** how new companies are innovating the space and unleashing mRNA platforms' full potential to develop a transformative class of medicines for infectious diseases, oncology, rare diseases and beyond
-  **EXPAND** your understanding of the current challenges, strategies and solutions to translate from proof-of-concept to the clinic, manufacturing and scale-up of next generation mRNA therapeutics
-  **CONNECT** with your community and peers from leading pharma, biotechs, solution providers and regulatory bodies in order to build forge long-lasting collaborations and partnerships

Please select the appropriate price when booking, all prices are in USD. All bookings are subject to organizer approval.

Drug Developer Pricing*	Register & Pay By Friday, May 19	On The Door
Conference + Focus Day	\$4,096 (save \$950)	\$5,046
Conference + Workshop Day	\$4,096 (save \$950)	\$5,046
Conference Only	\$2,599 (save \$500)	\$3,099
Academic, Research Institute & Not-For-Profit Pricing**	Register & Pay By Friday, May 19	On The Door
Conference + Focus Day	\$3,396 (save \$950)	\$4,346
Conference + Workshop Day	\$3,396 (save \$950)	\$4,346
Conference Only	\$2,199 (save \$500)	\$2,699
Service & Solution Provider Pricing	Register & Pay By Friday, May 19	On The Door
Conference + Focus Day	\$5,096 (save \$1,050)	\$6,146
Conference + Workshop Day	\$5,096 (save \$1,050)	\$6,146
Conference Only	\$3,299 (save \$600)	\$3,899

3 Easy Ways To Book:  [www.mrnabased-therapeutics.com/take-part/register](http://www.mrnabased-therapeutics.com/take-part/register)  Email: [info@hansonwade.com](mailto:info@hansonwade.com)  Tel: : +1 617 455 4188

## Venues

### Pre-Conference Day – July 26, 2023

Boston Convention and Exhibition Center - 415 Summer Street, Boston, MA 02210, United States  
[www.signatureboston.com/bcec/floor-plans-and-specs/space-finder](http://www.signatureboston.com/bcec/floor-plans-and-specs/space-finder)

### Main Conference Days – July 27-28, 2023

The Westin Boston Seaport District - 425 Summer Street, Boston, MA 02210, United States  
<https://www.marriott.com/en-us/hotels/bosow-the-westin-boston-seaport-district/overview/?scid=f2ae0541-1279-4f24-b197-a979c79310b0>

**Full payment is due on registration. Cancellation and Substitution Policy:** Cancellations must be received in writing. If the cancellation is received more than 14 days before the conference attendees will receive a full credit to a future conference. Cancellations received 14 days or less (including the fourteenth day) prior to the conference will be liable for the full fee. A substitution from the same organization can be made at any time.

**Changes to Conference & Agenda:** Every reasonable effort will be made to adhere to the event programme as advertised. However, it may be necessary to alter the advertised content, speakers, date, timing, format and/or location of the event. We reserve the right to amend or cancel any event at any time. Hanson Wade is not responsible for any loss or damage or costs incurred as a result of substitution, alteration, postponement or cancellation of an event for any reason and including causes beyond its control including without limitation, acts of God, natural disasters, sabotage, accident, trade or industrial disputes, terrorism or hostilities, sabotage, accident, trade or industrial disputes, terrorism or hostilities.

**Data Protection:** The personal information shown and/or provided by you will be held in a database. It may be used to keep you up to date with developments in your industry. Sometimes your details may be obtained or made available to third parties for marketing purposes. If you do not wish your details to be used for this purpose, please write to: Eastcastle House, 27/28 Eastcastle Street, London, W1W 6DH

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