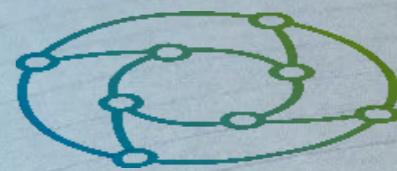




# FORMULATION & DELIVERY SERIES

## Conference Schedule 2023

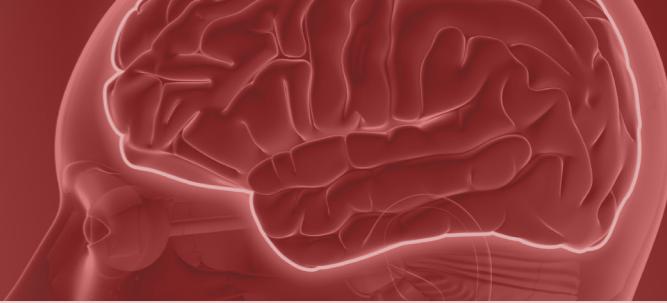


Blood-Brain Barrier Symposium		FORMULATION & DELIVERY UK: IN-PERSON		RNA THERAPEUTICS & DELIVERY US: IN-PERSON		RNA THERAPEUTICS & DELIVERY EUROPE: IN-PERSON		FORMULATION & DELIVERY US: IN-PERSON		Pharmaceutical Lyophilisation Symposium	
Virtual Symposium	1-Day Event	In-Person Congress & Exhibition (Supported Digitally)	2-Day Event	In-Person Congress & Exhibition (Supported Digitally)	2-Day Event	In-Person Congress & Exhibition (Supported Digitally)	2-Day Event	In-Person Congress & Exhibition (Supported Digitally)	2-Day Event	Virtual Symposium	1-Day Event
• 12+ presentations with 300+ attendees		• 50+ presentations from drug development, formulation & delivery experts		• 350+ attendees & 30+ presentations		• 300+ attendees and 35+ presentations		• 50+ presentations from drug development, formulation & delivery experts		• 12+ presentations with 300+ attendees	
• A packed one-day meeting on the advancements in delivering therapies to the brain & crossing the blood-brain-barrier		• A two-day London event with the leading expertise on innovative formulation strategies and technologies, as well as the research improving the delivery of complex therapeutics		• A two-day in person event packed with leading speakers, research and cutting-edge presentations on RNA-based therapeutic medicines, formulation and delivery of mRNA, RNAi and siRNA therapeutics		• Two-day in person meeting on the latest development in RNA formulation strategies, therapeutic discover, modalities, and delivery approaches		• Exploring the latest developments & research across biologics and small molecule formulation & drug delivery, new modalities formulation & delivery as well inhaled drug delivery		• A packed one-day meeting on the advancements in lyophilisation technology and applications	
• Join fellow industry leaders and explore innovative tools & device-based approaches for brain penetration as well as nanoparticle engineering for brain targeting		• 2 events in one: 9th Annual Formulation & Drug Delivery Congress and 8th Annual Inhalation & Respiratory Drug Delivery Congress		• Experience case studies, technical presentations, and interactive discussions on the latest breakthroughs in this promising area of drug development		• Bringing together leading companies inspiring discussions, knowledge-sharing and focused networking		• 2 events in one: 5th Annual Formulation & Drug Delivery USA Congress; 5th Annual Inhalation & Respiratory Drug Delivery USA Congress		• Join fellow industry leaders and explore the benefits lyophilisation can achieve for pharmaceutical products including enhanced stability of compounds and simplified aseptic handling	
		• Featuring a pre-event workshop day: » Workshop 1: RNA Formulation & Delivery » Workshop 2: Product Development » Workshop 3: Inhaled Biologics				• Co-located with Oligonucleotides: Chemistry & Therapeutics Europe: In-Person		• Featuring a pre-event workshop day: » Workshop 1: RNA Formulation & Delivery » Workshop 2: Product Development » Workshop 3: Inhaled Biologics			
April 2023 BST (UTC+1)		May 2023 London, UK		June 2023 Boston, USA		September 2023 Berlin, Germany		October 2023 San Diego, USA		November 2023 GMT (UTC+0)	

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

# Blood Brain Barrier Symposium

April 2023 | BST (UTC+1)



- **1-day Event**
- **Virtual Event**



An intensive one-day meeting that delves into the latest advancements, case studies, strategies & approaches for delivering therapies into the blood-brain barrier. From new and exciting to the latest in products & services, our online event will bring together over 300 leading companies for a day of discussion, knowledge sharing and focused networking sessions.

## Agenda at a Glance

### Blood Brain Barrier Symposium

#### Topics Covered:

- Case studies on delivering therapies through the BBB
- Tools for prediction of brain penetration
- Technological advancements & platforms
- Device-based approaches for BBB penetration
- Nanoparticle engineering for brain targeting
- Blood brain barrier models
- Achieving sufficient delivery across the blood-brain barrier

## Benefits to Attending

- Hear from and meet with the leading figures** focusing on delivering therapies through the blood-brain barrier
- Hear about novel technologies & platforms** designed for effective delivery to the brain
- Discuss new strategies, methods and approaches** to delivering nanoparticles to the brain & nanoparticle engineering for brain targeting
- Gain a comprehensive understanding of the latest improvements**, challenges & future opportunities of this vital area of research

## How It Works

#### Previous Speakers on Blood-Brain Barrier included:



GEORG TERSTAPPEN  
Executive Vice President, Drug Discovery,  
Cambrian Biopharma



AXEL MEYER  
Principal Research Scientist I,  
AbbVie

#### The Swapcard Platform

Our Symposiums are delivered through Swapcard, our market-leading and highly interactive digital event platform. Alongside the live programme, it has a variety of other features to maximise your event experience, including AI-assisted match-making with other delegates, additional resources such as white papers, exhibitor pages allowing you to connect with leading solution providers and a host of On-Demand content.

#### Interactivity

Our digital symposiums are designed to maximise interactivity. Each event features panel discussions facilitated by our expert speakers, and you can also join us for our live Q&As where a panel of speakers are ready to answer any questions you may have. The platform further increases your interactions with other attendees by making it simple to connect, chat, share files and more.

# Formulation & Delivery UK: In-Person

May 2023 | London, UK

- 2-day Event
- In-Person Congress & Exhibition
- (Supported Digitally)



Join market-leading drug development professionals for high-level discussions on the latest innovations in formulation science and drug delivery. This must attend event will discuss the current state of the industry, looking at new strategies for optimizing biopharmaceutical formulations as well as highlighting key updates in amorphous solid dispersions and combination products, through to novel therapeutic applications. The co-located inhaled drug delivery-focused congress will examine the latest developments in inhaled vaccines, biologics and antibiotics, as well as challenges and trends in respiratory device-mediated delivery.

## Agenda at a Glance

Day One	Day Two
<b>Track 1: Improving Small Molecule Drug Formulation</b> <ul style="list-style-type: none"><li>• Technologies and processes advancing drug product development</li><li>• Stability challenges and solutions</li><li>• Characterisation, solid state</li><li>• Drug solubility enhancement</li><li>• Fast-track formulation</li></ul>	<b>Track 1: Biotherapeutic Formulation Development</b> <ul style="list-style-type: none"><li>• Parenteral formulations</li><li>• Drug optimisation (safety &amp; efficacy)</li><li>• Biotherapeutic characterisation</li><li>• Lifecycle management of biotherapeutics</li><li>• Continuous processing for complex products</li><li>• Formulation for advanced therapies</li></ul>
<b>Track 2: Advanced Biologics Drug Delivery</b> <ul style="list-style-type: none"><li>• Innovative delivery for biologics</li><li>• Protein, peptide &amp; mAb delivery</li><li>• Long-acting injectable forms</li><li>• Novel delivery methods for fragile molecules</li><li>• Advanced Therapeutics - cell &amp; gene therapies</li><li>• Nanoparticle delivery</li></ul>	<b>Track 2: Small Molecule Drug Delivery Techniques &amp; Technologies</b> <ul style="list-style-type: none"><li>• Oral dosage form improvement</li><li>• Injection/infusion</li><li>• Transdermal &amp; dermally applied drugs</li><li>• Combination products &amp; devices</li><li>• Patient-friendly delivery and dosage forms</li></ul>
<b>Track 3: Stability, Bioanalysis &amp; Characterisation</b> <ul style="list-style-type: none"><li>• Drug product development</li><li>• Supersaturation of insoluble molecules</li><li>• Characterisation of fragile molecule</li><li>• Bioanalytics improving drug product development</li></ul>	
Day One	Day Two
<b>Track 4: Approaches to Treating Respiratory Diseases and Development, Formulation &amp; Delivery of Inhaled Therapies</b> <ul style="list-style-type: none"><li>• Aerosol Science<ul style="list-style-type: none"><li>» Preclinical modelling of inhaled therapies</li><li>» Characterising aerosol dynamics</li><li>» Particle engineering including spray drying</li></ul></li><li>• Future trends in generics:<ul style="list-style-type: none"><li>» Bioequivalence</li><li>» PK/PD Modelling</li></ul></li><li>• Nanocarrier therapies for pulmonary delivery</li><li>• Innovative formulation of therapies for:<ul style="list-style-type: none"><li>» COPD</li><li>» Asthma</li><li>» Cystic Fibrosis</li><li>» Covid-19</li></ul></li></ul>	<b>Track 3: Alternative Therapeutic Areas, Inhalation Devices &amp; Combination Products</b> <ul style="list-style-type: none"><li>• Case studies on alternative therapeutic areas:<ul style="list-style-type: none"><li>» Inhaled vaccines</li><li>» Inhaled biologics</li><li>» Intranasal and pulmonary RNA delivery</li></ul></li><li>• Novel technologies for pulmonary &amp; nasal delivery</li><li>• Innovative development of inhalation devices:<ul style="list-style-type: none"><li>» DPIs</li><li>» MDIs</li><li>» Nebulizers</li></ul></li><li>• Connective health<ul style="list-style-type: none"><li>» Improving patient adherence and technique with product design</li><li>» Digital health combination products</li></ul></li><li>• Challenges of bringing inhalation and respiratory drug delivery products to the market</li></ul>

## Who will be there?

**400+ VPs, Directors & Senior Managers** from leading pharma & biotech companies and research institutions in the following fields and more:

### Formulation & Drug Delivery

- Formulation science
- Drug delivery
- Biologics formulation
- Delivery technologies
- Stability

### Inhalation & Respiratory Drug Delivery

- Aerosol science
- Aerosol research
- Respiratory medicine
- Digital health
- Inhaled devices

**Formal and informal meeting opportunities** offer delegates the chance to discuss key solutions with leading service providers:

### Formulation & Drug Delivery

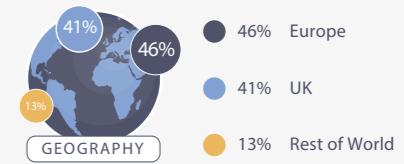
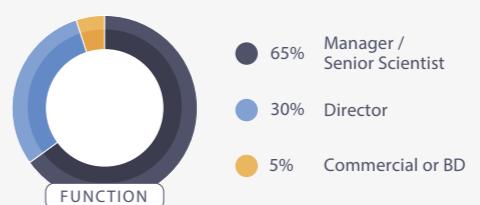
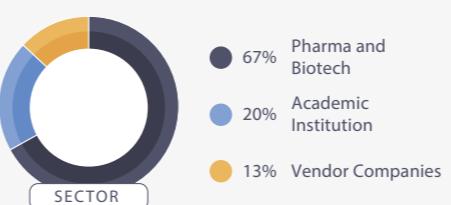
- Formulation design
- Formulation development
- Sustained drug delivery
- Stability testing
- Characterisation solutions

### Inhalation & Respiratory Drug Delivery

- Dry powder inhalers
- Analytical services
- Inhaler technologies
- Dosing technology
- Particle engineering

## Previous In-Person Event's delegates in numbers:

(from 2021's Formulation & Delivery UK: In-Person)



# RNA Therapeutics & Delivery US: In-Person

June 2023 | Boston, USA

- 2-day Event
- In-Person Congress & Exhibition
- (Supported Digitally)



Gain insights into the latest development, formulation and delivery of RNA therapeutics. Learn from key opinion leaders working to deliver RNA therapies for several therapeutic areas including infectious disease and cardiovascular disease. Across four in-depth sessions the latest improvements pushing the industry forward will be addressed: from mRNA characterisation, RNA delivery agents and viral vectors through to novel RNA drug discovery tools and RNAs as drug targets. Stay at the forefront of the growing interest in technologies including mRNA vaccines, siRNA as well as antisense and RNA interference.

## Agenda at a Glance

Day One	Day Two
<b>Track 1: RNA Formulation &amp; Clinical Development</b> <ul style="list-style-type: none"><li>• Nanoparticles/liposomes/exosomes</li><li>• Increasing immunogenicity &amp; prediction</li><li>• Overcoming challenges in mRNA characterisation</li><li>• Analytical development</li><li>• Stability &amp; CMC</li><li>• Raw materials</li></ul> <b>Track 2: RNA Therapeutic Discovery &amp; Modalities</b> <ul style="list-style-type: none"><li>• Using mRNA as Drugs<ul style="list-style-type: none"><li>» mRNA Therapeutics</li><li>» mRNA Vaccines</li></ul></li><li>• Silencing<ul style="list-style-type: none"><li>» siRNA</li><li>» Antisense</li></ul></li><li>• Editing &amp; Repair<ul style="list-style-type: none"><li>» Therapeutic mRNA Editing</li><li>» BASE mRNA Editing</li><li>» Splice Skipping-Modulation</li><li>» RNA Guided Genome Editing (CRISPR-Cas9)</li></ul></li><li>• RNA as drug targets<ul style="list-style-type: none"><li>» Novel RNA drug discovery tools</li><li>» Overcoming challenges in rapid drug discovery of RNAs</li><li>» Optimization of RNA-targeting compounds</li><li>» Target selection</li><li>» PKPD</li></ul></li></ul>	<b>Track 1: RNA Drug Delivery</b> <ul style="list-style-type: none"><li>• Latest developments in RNA delivery agents</li><li>• Alternative routes &amp; alternative tissue targeting</li><li>• Delivering self-replicating RNAs</li><li>• Overcoming key challenges in delivering RNA to target cells</li><li>• Nano and lipid-based drug delivery methods</li><li>• Polymer delivery</li><li>• Viral vectors, delivery conjugates</li><li>• RNA interference &amp; antisense technologies</li></ul> <b>Track 2: Application Areas of RNA Therapeutics</b> <ul style="list-style-type: none"><li>• Therapeutic case studies:<ul style="list-style-type: none"><li>» Cardiovascular diseases</li><li>» Infectious diseases</li><li>» Kidney diseases</li><li>» Rare Diseases</li></ul></li><li>• RNA in vaccine and Covid-19 research &amp; development</li></ul>

## Who will be there?

350+ VPs, Directors & Senior Managers from leading pharma & biotech companies and research institutions in the following fields and more:

- mRNA Development
- microRNA
- siRNA
- Oligonucleotides
- RNA Interference
- Lipid Nanocarriers
- Antisense RNA
- Viral Platforms
- RNA Biochemistry
- RNA Delivery
- Molecular Biology
- RNA Technology

**Formal and informal meeting opportunities** offer delegates the chance to discuss key solutions with leading service providers:

- Delivery platforms
- Raw materials
- Nanocarriers & lipids
- Clinical manufacturing
- CRO/CMOs
- Sequencing & assays
- Viral vectors
- Formulation development

## Previous year's delegates in numbers:

(from 2020's Formulation & Delivery Europe: Online)

FUNCTION	SECTOR	GEOGRAPHY
60% – Scientist / Academic	55% – Industry	55% – Europe
20% – Director / Head / Professor	26% – Academia	20% – US
15% – Manager / Lead	19% – Sponsor / Vendor / Commercial	13% – UK
5% – C-Level		12% – Rest of World

# RNA Therapeutics & Delivery Europe: In-Person

June 2023 | Berlin, Germany



- 2-day Event
- In-Person Congress & Exhibition
- (Supported Digitally)*



Gain insights into the latest development, formulation and delivery of RNA therapeutics. Learn from key opinion leaders working to deliver RNA therapies for several therapeutic areas including infectious disease and cardiovascular disease. Across four in-depth sessions the latest improvements pushing the industry forward will be addressed: from mRNA characterisation, RNA delivery agents and viral vectors through to novel RNA drug discovery tools and RNAs as drug targets. Stay at the forefront of the growing interest in technologies including mRNA vaccines, siRNA as well as antisense and RNA interference.

## Agenda at a Glance

Day One	Day Two
<p><b>Track 1: Next Generation RNA Formulation Strategies</b></p> <ul style="list-style-type: none"><li>• Latest developments in RNA delivery agents</li><li>• Alternative routes &amp; alternative tissue targeting</li><li>• Delivering self-replicating RNAs</li><li>• Overcoming key challenges in delivering RNA to target cells</li><li>• Nano and lipid-based drug delivery methods</li><li>• RNA interference &amp; antisense technologies</li></ul> <p><b>Track 2: RNA Therapeutic Discovery, Modalities &amp; Applications</b></p> <ul style="list-style-type: none"><li>• Using mRNA as drugs:<ul style="list-style-type: none"><li>» mRNA Therapeutics</li><li>» mRNA Vaccines</li></ul></li><li>• Silencing<ul style="list-style-type: none"><li>» siRNA</li><li>» Antisense</li></ul></li><li>• Editing and Repair<ul style="list-style-type: none"><li>» Therapeutic mRNA Editing</li><li>» BASE mRNA Editing</li><li>» Splice Skipping-Modulation</li><li>» RNA Guided Genome Editing (CRISPR-Cas9)</li></ul></li><li>• RNA as drug targets:<ul style="list-style-type: none"><li>» Novel RNA drug discovery tools</li><li>» Overcoming challenges in rapid drug discovery of RNAs</li><li>» Optimisation of RNA-targeting compounds</li><li>» Target selection</li><li>» PKPD</li></ul></li><li>• Case studies from therapeutics</li><li>• PKPD</li></ul>	<p><b>Track 1: RNA Drug Delivery</b></p> <ul style="list-style-type: none"><li>• Nanoparticles/liposomes/exosomes</li><li>• Increasing immunogenicity &amp; prediction</li><li>• Overcoming challenges in mRNA characterisation</li><li>• Analytical development</li><li>• Stability &amp; CMC</li></ul>

## Who will be there?

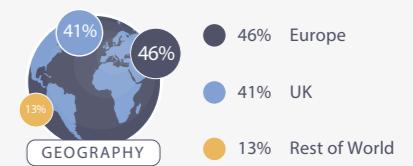
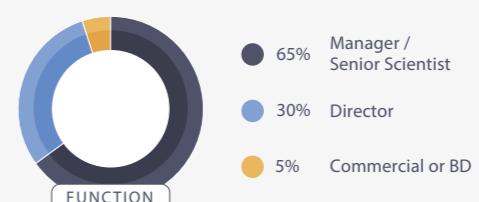
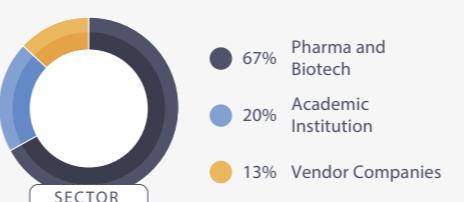
**350+ VPs, Directors & Senior Managers** from leading pharma & biotech companies and research institutions in the following fields and more:

- Clinical Development
- Pre-Clinical Development
- RNA Biology
- RNA Formulation
- RNA Drug Delivery
- Pre-clinical R&D
- New Modalities
- Modalities Discovery
- LNP Formulation Development
- RNA Biochemistry

**Formal and informal meeting opportunities** offer delegates the chance to discuss key solutions with leading service providers:

- RNA Synthesis
- RNA Kits & Reagents
- Delivery Platforms
- Viral Vectors
- Nanocarriers & Lipids
- RNA Analysis
- RNAi Therapy Development
- RNA Technology
- mRNA Purification
- RNA Profiling

**Previous In-Person Event's delegates in numbers:**  
(from 2021's Formulation & Delivery UK: In-Person)



# Formulation & Delivery US: In-Person

October 2023 | San Diego, USA



- 2-day Event
- In-Person Congress & Exhibition
- (Supported Digitally)*



Join world-leading experts in drug product development and delivery for this on-site meeting in San Diego, West Coast's scientific hub. You'll learn about the latest advancements in the formulation of large and small molecule drugs, new modalities and explore the innovations in the delivery of complex and challenging therapeutics. Co-located with the inhaled drug delivery-focused sessions looking at key research areas pushing the industry's growth further.

## Agenda at a Glance

5th Annual Formulation & Drug Delivery USA Congress	5th Annual Inhalation & Respiratory Drug Delivery USA Congress
<b>DAY ONE</b> Track 1: Innovation in Small Molecule Drug Formulation <ul style="list-style-type: none"><li>• Barriers &amp; bioavailability</li><li>• Formulation for injectables</li><li>• Formulation for difficult dosage forms</li><li>• Early prediction of formulation performance</li></ul> Track 2: Advances in Biologics & New Modalities Delivery <ul style="list-style-type: none"><li>• Innovative delivery for biologics</li><li>• Protein &amp; peptide delivery</li><li>• Long-acting injectable forms</li><li>• Novel delivery methods for fragile molecules</li><li>• Strategies for RNA delivery</li><li>• Patient-friendly dosage forms</li></ul> Track 3: Stability, Bioanalysis & Characterisation <ul style="list-style-type: none"><li>• Aggregation, stability &amp; characterisation</li><li>• Bioanalytical development</li><li>• Advanced Analytical Controls</li><li>• Stability testing for novel therapeutics</li></ul>	<b>DAY ONE</b> Track 4: Development, Formulation & Delivery of Inhaled Therapies <ul style="list-style-type: none"><li>• Aerosol science<ul style="list-style-type: none"><li>» Preclinical modelling of inhaled therapies</li><li>» Particle engineering including spray drying</li></ul></li><li>• Innovations in DPI and nebulized therapy formulation</li><li>• Future trends in generics: bioequivalence, PK/PD modelling</li><li>• Nanocarrier therapies for pulmonary delivery</li><li>• Innovative formulation of therapies for COPD, asthma and cystic fibrosis</li><li>• Case studies on alternative therapeutic areas: inhaled vaccines and inhaled antibiotics</li></ul> <b>DAY TWO</b> Track 3: Inhalation Devices, Combination Products & Inhaled Biologics <ul style="list-style-type: none"><li>• Novel technologies for pulmonary &amp; nasal delivery</li><li>• Innovative development of inhalation devices</li><li>• Connective health<ul style="list-style-type: none"><li>» Improving patient adherence and technique with product design</li><li>» Digital health combination products</li></ul></li></ul>
<b>DAY TWO</b> Track 1: Formulation of Biologics & New Modalities <ul style="list-style-type: none"><li>• Innovation in biologics formulation</li><li>• Challenges &amp; new technologies in aiding drug development</li><li>• Solid oral dose &amp; high concentration biologics</li><li>• Combination drug formulation</li><li>• Amorphous solid dispersions</li></ul> Track 2: Small Molecule Drug Delivery <ul style="list-style-type: none"><li>• Complex release profiles &amp; combination products</li><li>• Timed &amp; targeted delivery</li><li>• Oral delivery &amp; other dosage forms</li></ul>	

## Who will be there?

**350+ VPs, Directors & Senior Managers** from leading pharma & biotech companies and research institutions in the following fields and more:

### Formulation & Drug Delivery

- Formulation science
- Aerosol Research
- Drug delivery
- Respiratory Medicine
- Biologics formulation
- Product Development
- Delivery technologies
- Inhaled Devices
- Stability
- Pharmaceutical Profiling
- Bioanalysis
- Device Development
- Characterisation
- Chemical Sciences

### Inhalation & Respiratory Drug Delivery

- Aerosol science
- Aerosol research
- Respiratory medicine
- Chemical sciences
- Digital health
- Inhaled devices
- Nebulizers
- Device profiling
- Device development
- Device platforms
- Pharmaceutical

**Formal and informal meeting opportunities** offer delegates the chance to discuss key solutions with leading service providers:

### Formulation & Drug Delivery

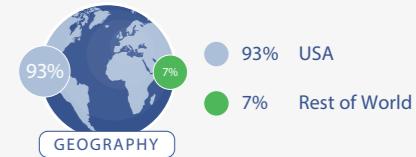
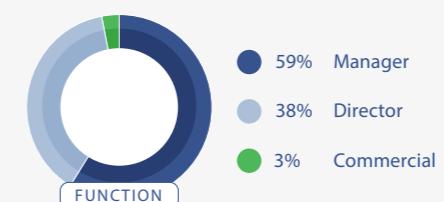
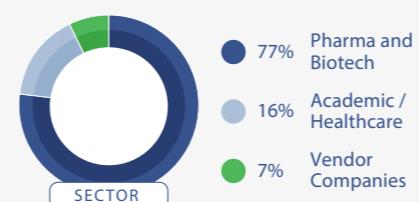
- Formulation design
- Formulation development
- Sustained drug delivery
- Stability testing
- Characterisation solutions
- Analytical services

### Inhalation & Respiratory Drug Delivery

- Dry powder inhalers
- Inhaled devices
- Analytical services
- Inhaler technologies
- Dosing technology
- Device platforms
- pMDI
- Nebulizers

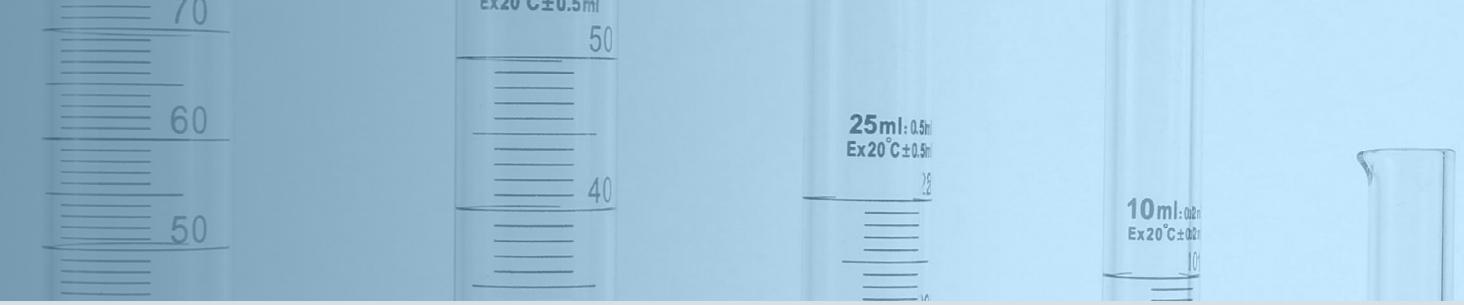
### Previous In-Person Event's delegates in numbers:

(from 2021's Formulation & Delivery US: In-Person)



# Pharmaceutical Lyophilization Symposium

November 2023 | GMT (UTC+0)



- 1-day Event
- Virtual Event



An intensive one-day meeting that delves into the latest in freeze-drying technologies and their application in drug formulation & delivery. From new and exciting to the latest in products & services, our online event will bring together over 300 leading companies for a day of discussion, knowledge sharing and focused networking sessions.

## Agenda at a Glance

### Pharmaceutical Lyophilization Symposium

#### Topics Covered:

- Next generation refrigerants
- Advances in freeze-drying technologies
- Freeze-drying of concentrated protein solutions
- Overcoming process challenges in achieving the desired moisture levels and maintaining product quality
- Exploring alternative drying techniques:
  - » Spray drying
  - » Precipitation
  - » Vacuum-microwave dehydration
  - » Atmospheric freeze-drying



An opportunity to meet and talk with representatives of leading pharmaceutical companies. A comprehensive range of topics, very interesting presentations with case studies."

- ATTENDEE OF 'FORMULATION & DELIVERY SERIES 2019', FROM CELON PHARMA

## Benefits to Attending



Hear from and meet with the leading figures focusing on the application of freeze-drying technologies in drug formulation & delivery



Interact with fellow attendees and speakers through in-depth panel discussions and workshops as well as live speaker Q&As



Explore case studies pertaining to the latest technological advancements, overcoming moisture level & product quality challenges as well as exploring alternative drying techniques



Gain a comprehensive understanding of the latest techniques & methods of freeze-drying of concentrated protein solutions

## How It Works

### The Swapcard Platform

Our Symposiums are delivered through Swapcard, our market-leading and highly interactive digital event platform. Alongside the live programme, it has a variety of other features to maximise your event experience, including AI-assisted match-making with other delegates, additional resource such as white papers, exhibitor pages allowing you to connect with leading solution providers and a host of On-Demand content.

### Interactivity

Our digital symposiums are designed to maximise interactivity. Each event features panel discussions facilitated by our expert speakers, and you can also join us for our live Q&As where a panel of speakers are ready to answer any questions you may have. The platform further increases your interactions with other attendees by making it simple to connect, chat, share files and more.