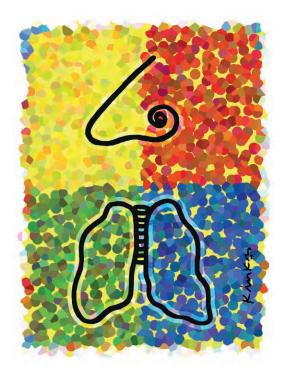


**Bringing the Respiratory World Together** 



May 2-5, 2023
Palais des Congrès Antipolis
Antibes (Nice), France

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Antibes (Nice), France, May 2-5, 2023

CONFERENCE CO-ORGANIZERS \_\_\_\_\_





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# **TUESDAY • MAY 2 • 2023**

3:00 - 6:00 PM	Registration	Congress Center Level 2
6:00 - 7:30 PM.	Cocktail Reception	Foyer Méditerranée Level 3
	Sponsored by Our Conference Supporters	

# WEDNESDAY • MAY 3 • 2023

7:30 AM	Registration & Welcome Coffee	Congress Center Level 2
9:00 AM	Welcome and Introduction	Auditorium Level 3
	Richard N. Dalby, Ph.D.	
	Professor, School of Pharmacy	
	University of Maryland, Baltimore, Maryland, USA	
9:15 AM	KEYNOTE PRESENTATION	
	Sponsored by our Conference Supporters	
	Moderator: Joanne Peart, Ph.D.	
	Multi-Ancestry Genome-Wide Association Analyses	N
	Implicate Genes and Pathways Influencing Pulmonary D	riseases
	Martin D. Tobin, Ph.D.	
	Professor of Genetic Epidemiology and Public Health	
	University of Leicester, Leicester, United Kingdom	
10:15 AM	POSTERS & EXHIBITION	Congress Center Level 2
	Light Refreshments Served	-
	Posters & Exhibit Tables will be available for viewing	
	between 9:30 a.m. and 6:00 p.m.	
11:00 AM - 12:00 PM	SESSION 1: From Bench to Bedside	Auditorium Level 3
	New Approaches to Treating Respiratory Diseases	
	Moderator: Paul M. Young, Ph.D.	
11:00 AM	A Critical Assessment of Inhaled Antibody Therapies	
	Jenny K W Lam Ph.D.	
	University College London, United Kingdom	
11.30 AM	Towards The Clinical Translation of Inhaled	
	Rifampicin for Tuberculosis	
	Shyamal C. Das, Ph.D.	
	University of Otago, Dunedin, New Zealand	
12:00 PM	SESSION 1 ENDS • POSTERS & EXHIBITION	Congress Center Level 2
	Lunch Provided	

# WEDNESDAY • MAY 3 • 2023 continued

2:00-6:00 PM SESSION 2: WORKSHOPS Congress Center Level 3

Sponsor: Aptar Pharma

Moderator: Gerallt Williams, Ph.D.

2:00 PM Workshop Selection #1

3:15 PM Workshop Selection #2

4:30 PM Workshop Selection #3

The following companies will each sponsor 60-minute interactive presentations on new technologies and services related to nasal and pulmonary drug delivery. Meeting participants may select and attend **THREE** of these sessions.

Refreshments will be available throughout the afternoon.



Accelerating and De-Risking the Development of Low Global Warming Potential (GWP) pMDIs

Louis Armstrong C1



Synergies of Inhalation Product Development and Spray Characterization

Ray Charles E1



Functional Respiratory Imaging: A Tool to Understand Regional Airway Exposure to Inhaled Drugs as Part of the Regulatory Process for Complex Generics

Ella Fitzgerald A1



HFO-1234ze(E): Adopting A Low-GWP Propellant for Metered Dose Inhalers

Ella Fitzgerald A3



Integrated Development for Capsule-Based DPIs – Solving New Challenges

Miles Davis B3

# WEDNESDAY • MAY 3 • 2023 continued



Navigating New Technologies for Inhaled Product Development to Meet the Challenges of Small and Large Molecules

Miles Davis B2

From Rapid Feasibility to Sustainable Products: Identifying the Right Inhalation Delivery System for Your Drug

Sidney Bechet D1

Dry Powder Dosing of APIs: An Alternative Filling Technique for pMDIs

Miles Davis B1

Spray-Drying Process Considerations for Inhaled Biotherapeutic Dry Powders

Sidney Bechet D2

MedPharm

In Vitro Epithelial Models to Aid Nasal & Pulmonary Product Development

Louis Armstrong C2

An Overview of Lipid Nanoparticle Based mRNA Formulations for Inhaled Delivery

Ella Fitzgerald A2



Addressing Analytical Challenges in Inhaled Product Development

Ella Fitzgerald A4

6:00 PM

**SESSION 2 ENDS** 

6:30 - 8:00 PM

**American Association of Pharmaceutical Scientists** 

AC Hotel Ambassadeur

**AAPS Inhalation and Nasal Community** 

The Journey of Biologics to Get to the Lungs John S. Patton, Ph.D. Kindeva Drug Delivery

# **THURSDAY • MAY 4 • 2023**

7:30 AM	Registration & Welcome Coffee	Congress Center Level 2
8:30 AM	POSTERS & EXHIBITION  Posters & Exhibit Tables will be available for viewing between 8.30 a.m. and 6.00 p.m.	Congress Center Level 2
9:00 - 10:00 AM	SESSION 3: Navigating Nasal Vaccines	Auditorium Level 3
	Moderator: Regina Scherließ, Dr.rer.nat.	
9:00 AM	Intranasal Vaccination: Rationale, Progress and Challenges Julie D. Suman, Ph.D. Aptar Pharma, Baltimore, USA	
9:30 AM	Dual Nasal and Pulmonary Targeting to Optimize Mucosal Absorption: Exploring Methods, Devices and Formulations Orest Lastow, Ph.D. Iconovo, Lund, Sweden	
10:00 AM	SESSION 3 ENDS • POSTERS & EXHIBITION Light Refreshments Served	Congress Center Level 2
10:30 AM - 12:00 PM	SESSION 4: Posters on the Podium	Auditorium Level 3
	Moderators: Daniela Traini, Ph.D. and Hui Wang, Ph.D.	
	Five poster authors have been selected to summarize their work and answer questions during a fast-paced interactive podium session.	
10:30 AM	Evaluation of a Novel Porcine Trachea Cell Airway Model for the Screening of Excipient Toxicity used in Biopharmaceutical Inhalation Products Rebecca Rittersberger, Pharmacist University of Applied Sciences Biberach, Germany	
10:45 AM	Go with the Flow: Evaluation of a Perfused Calu-3 Model Using a Micro-Physiological System for Inhaled Drug Discovery Adeel Ahmed, B.Sc. University of Hertfordshire, Hatfield, United Kingdom	

# THURSDAY • MAY 4 • 2023 continued

11:00 AM	Benchmarking of Particle Engineering Strategies for Nasal Powder Delivery: Characterization of Nasal Deposition using the Alberta Idealized Nasal Inlet Patricia Henriques, Pharm.D. University of Coimbra, Coimbra, Portugal	
11:15 AM	L-Leucine as a Dispersibility Enhancer in Fully Crystalline Spray-Dried Systems Mani Ordoubadi, Ph.D. University of Alberta, Edmonton, Canada	
11:30 AM	HFO-1234ze(E): Flammability Characterization for Metered Dose Inhaler Manufacturing Gregory Smith, Ph.D. Honeywell International, Buffalo, USA	
11:45 AM	Presentation of VCU RDD Peter R. Byron Graduate Student Award Michael Hindle, Ph.D. Professor, School of Pharmacy Virginia Commonwealth University, Richmond, Virginia, USA	
12:00 PM	SESSION 4 ENDS • POSTERS & EXHIBITION Lunch provided	Congress Center Level 2
12:00 PM 2:00 - 5:30 PM		Congress Center Level 2  Auditorium Level 3
	Lunch provided	
	SESSION 5: Building a Sustainable Future  Co-Chairs: Joanne Peart, Ph.D. and	
2:00 - 5:30 PM	SESSION 5: Building a Sustainable Future  Co-Chairs: Joanne Peart, Ph.D. and Stephen W. Stein, M.Sc.  A Sustainability Roadmap for Inhalation Products Greg Anderson, M.Sc.	

### THURSDAY • MAY 4 • 2023 continued

3:30 PM **Accelerated Development of MDIs with Low** Auditorium Level 3 GWP Propellants in a QbD Era: Practical, **Regulatory and Scientific Considerations** Loy Britto Ph.D. Healthy Airways, Georgetown, Texas USA 4:00 PM **Optimizing Spray Formation in Solution** and Suspension Low GWP Metered Dose Inhalers Daniel J. Duke, Ph.D. Monash University, Melbourne, Australia, and Benjamin Myatt, Ph.D. Kindeva Drug Delivery, Loughborough, United Kingdom 4:30 PM Co-Suspension Aerosphere Technology **Enabling the Pharmaceutical Transition** to Non HFA Pressurized Metered Dose Inhalers With Reduced Environmental Impact David Lechuga-Ballesteros Ph.D. AstraZeneca, Durham, USA 5:00 PM **Explore with Experts:** The Sustainable Inhaler Challenge Co-Chairs: Joanne Peart and Stephen W. Stein Panel: Greg Anderson, PharmaCentric Solutions Henry Blower and Dan Cowen, Cambridge Consultants Loy Britto, Healthy Airways Daniel J. Duke, Monash University Benjamin Myatt, Kindeva Drug Delivery

# 5:30 PM SESSION 5 ENDS 7:30 PM Gala Dinner "An Evening of Glamour" Bastide du Roy, Antibes Sponsored by Aptar Please assemble in front of the Palais des Congrès Antipolis at 6:30 p.m. Buses will depart from the Palais des Congrès at 6:45 p.m., for the drive to Bastide du Roy. Return by bus between 10:30 p.m. and 1:00 a.m.

David Lechuga-Ballesteros, AstraZeneca

# FRIDAY • MAY 5 • 2023

7:30 AM	Registration & Welcome Coffee	Congress Center Level 2
8:30 AM	POSTERS & EXHIBITION  Posters & Exhibit Tables will be available for viewing between 8.30 a.m. and 12.30 p.m.	Congress Center Level 2
8:30 - 10:00 AM	SESSION 6: Inspiring Dry Powder Inhalation	Auditorium Level 3
	Moderator: Michael Hindle, Ph.D.	
8:30 AM	Addressing Challenges of High Dose Powder Delivery: Formulation and Device Considerations Eunice Costa, Ph.D. Hovione, Loures, Portugal	
9:00 AM	Shaping the Future of Inhaled Powders: Spray Drying siRNA Lipid Nanoparticles for Dry Powder Pulmonary Delivery Olivia Merkel, Ph.D. Ludwig-Maximilians-University of Munich, Munich, Germany	
9:30 AM	Inhalation Blend Microstructure: Identifying Key Metrics to Address Q3 Equivalence using Semi-automated X-Ray Microscopy Parmesh Gajjar, Ph.D. University of Manchester Manchester, United Kingdom, and Darragh Murnane, Ph.D. University of Hertfordshire, Hatfield, United Kingdom	
10:00 AM	SESSION 6 ENDS • POSTERS & EXHIBITION Light Refreshments Served	Congress Center Level 2

# FRIDAY • MAY 5 • 2023 continued

10:30 AM - 12:00 PM **SESSION 7: Advanced Inhalation: Data Driven Design** Auditorium Level 3 Moderator: Richard N. Dalby, Ph.D. 10:30 AM Mixing Energy as an Adjustment Tool for **Aerodynamic Behavior of an Inhaled Product:** In Vitro and In Vivo Effects Kyrre Thalberg, Ph.D. Lund University, Lund, Sweden and Satu Lähelmä, M.Sc. Orion Corporation, Espoo, Finland 11:00 AM **Alternative Bioequivalence Approaches:** Combining In Vitro and In Silico Models to Demonstrate **Bioequivalence of Orally Inhaled Drug Products** Will Ganley, Ph.D. Nanopharm, an Aptar Pharma Company, Cwmbran, United Kingdom 11:30 AM **Current US Regulatory Thinking for Alternative** Bioequivalence Approaches for Generic Orally Inhaled Drug Products (Delivered via Teleconference) Bryan Newman, Ph.D. US Food and Drug Administration, Silver Springs, USA **SESSION 7 ENDS** 12:00 Noon Lunch provided 2:00 PM **End of RDD Europe 2023**