

Bringing the Respiratory World Together



May 6-9, 2025 Estoril (Lisbon), Portugal

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Estoril (Lisbon), Portugal, May 6-9, 2025

CONFERENCE CO-ORGANIZERS





CONFERENCE SUPPORTERS

SESPAK

Honeywell

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Kindeva



TUESDAY • MAY 6 • 2025

3:00 – 6:00 PM	Registration	Congress Center Reception
6:00 – 7:30 PM	Cocktail Reception	Evolution Cascais-Estoril Hotel
	Sponsored by our Conference Supporters	

WEDNESDAY • MAY 7 • 2025

7:30 AM	Registration & Welcome Coffee	Congress Center Reception
9:00 AM	Welcome and Introduction Richard N. Dalby, Ph.D. Professor, School of Pharmacy University of Maryland, Baltimore, Maryland, USA	Auditorium
9:15 AM	KEYNOTE PRESENTATION Sponsored by our Conference Supporters	Auditorium
	Moderator: Joanne Peart, Ph.D.	
	It's All About Delivery: Pre-clinical Development of a Surfactant Powder Aerosol Product	
	Michael Hindle, Ph.D. Peter R. Byron Distinguished Professor Virginia Commonwealth University, Richmond, Virginia, USA	
10:15 AM	POSTERS & EXHIBITION Light Refreshments Served	Congress Center Hall A
	Posters & Exhibit Tables will be available for viewing between 10:00 AM and 6:00 PM.	
11:00 AM-12:00 PM	SESSION 1: Inspiring Dry Powder Inhalation: Next Generation Carriers	Auditorium
	Moderator: Paul M. Young, Ph.D.	
11:00 AM	Carrier Size, Surface & Geometry: New Tools to Provide a Mechanistic Understanding of Interactive Powder Blend Regina Scherließ, Dr.rer.nat Kiel University, Kiel, Germany	S
11:30 AM	β-Lactoglobulin, A Novel Excipient for Next Generation Spray-Dried Powder Formulations <i>Paolo Roque Lino, Ph.D.</i> <i>Hovione, Lisbon, Portugal</i>	
12:00 PM	SESSION 1 ENDS • POSTERS & EXHIBITION Lunch Provided	Congress Center Hall A



2:00 - 5:30 PM	SESSION 2: WORKSHOPS	Congress Center Level 0, C1-7 and D1-3; Level 1, F1-7
	Sponsor: Aptar Pharma Moderator: Julie Suman, 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 <i>Light refreshments will be available throughout t</i>	5.
	Ready for Clinical Trials in 1 Hour: A Roadmap t	o Success Level 0 Room C7
BESPAK	The Transition to Low GWP Propellants in pMD Increasing Your Probability of Success Using a Collaborative Approach	lls: Level 1 Room F7
	Biologics for Nebulization: An Approach	

- COPLEY Unlock the Mysteries of APSD Data Analysis: Transform Your Inhaled Product Development
- Honeywell
 Navigating the Global Regulatory Landscape Enabling
 Level 1 Room F3/F4

 Image: Market Partner
 the Sustainability Transition in the pMDI Space
 Level 1 Room F3/F4
- Hovione Optimizing Biologics Powder Formulations: Achieving High Drug Load, Stability, and Efficient Inhalation

Level 0 Room D3

Level 1 Room F1

	WEDNESDAY • MAY 7 • 2025 continued	{
	A Systematic and Efficient Approach Through Use of Complimentary Expertise to Mitigate Uncertainty and Accelerate Dry Powder Inhaler Development	Level 0 Room C4
∭Kindeva	Fast Tracking Complex Delivery Systems: From Targeted Nasal Delivery to High Dose Lung Delivery	Level 0 Room D1
LONZA	An Expanded Toolbox for Respirable Dry Powders: Pulmonary and Intranasal Delivery for Small and Biotherapeutic APIs	Level 0 Room C5/C6
orbia 🔘	Technical Challenges in Sustaining Medical Propellant Supply During the Low GWP Transition	Level 1 Room F5/F6
Dhillips Medisize a molex company	From Botanicals to Biologics: Matching the Molecule with a Delivery Platform and Formulation Approach	Level 0 Room C1/C2
	Emerging Role of Nasal Casts and Automation for the <i>In Vitro</i> Evaluation of Nasal Drug Products	Level 1 Room F2
5:30 PM	SESSION 2 ENDS	
6:30 - 8:00 PM	Saabs American Association of Evolu	ution Cascais-Estoril Hotel
	AAPS Inholotion and Nacal Community	

AAPS Inhalation and Nasal Community What Have We Learned About Inhaled RNA Therapy?

Jenny KW Lam, Ph.D. University College London

THURSDAY • MAY 8 • 2025

7:30 AM	Registration & Welcome Coffee	Congress Center Reception
8:30 AM	POSTERS & EXHIBITION Posters & Exhibit Tables will be available for viewing between 8:30 AM and 6:00 PM	Congress Center Hall A
8:30 - 10:00 AM	SESSION 3: From Bench to Bedside: Focus on RNA Therapeuticss	Auditorium
	Moderator: Jenny KW Lam, Ph.D.	
8:30 AM	Nasal and Pulmonary Immunology: Choosing the Optimal Vaccine Delivery Route John S. Patton, Ph.D. Kindeva Drug Delivery, Union City, California, USA	
9.00 AM	Addressing the Challenge of Respiratory RNA Therapeutic with Inhalable Hybrid Lipid-Polymer Nanoparticles Francesca Ungaro, Ph.D. University of Napoli Federico II, Napoli, Italy	s
9.30 AM	A Non-Lipid Nanoparticle Platform for Targeted RNA Therapeutic Delivery Jag Shur, Ph.D. RIGImmune, Farmington, Connecticut, USA	
10:00 AM	SESSION 3 ENDS • POSTERS & EXHIBITION Light Refreshments Served	Congress Center Hall A
10:30 AM - 12:00 PM	SESSION 4: Posters on the Podium	Auditorium
	Moderators: Daniela Traini, Ph.D. and Patricia Henriques, 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	Design, Development, and Validation of a Novel Dry Powder Inhaler Adaptor for Increased Deposition of Anti-Inflammatory Agents in Pediatric Asthma Lily Zhu, B.Sc. Johns Hopkins University, Baltimore, Maryland, USA	
10:45 AM	A Comparison of Particle Dynamics within Several Airway Models using Phase Doppler Anemometry Peter Di Palma, BASc. University of Toronto, Toronto, Canada	

THURSDAY • MAY 8 • 2025 continued

11:00 AM	ffects of Airway Wall Dynamics During Inhalation on Drug Delivery ia Pressurized Metered Dose Inhalers using Patient-Specific Airway Models lahsa Jahed, M.Eng. akehead University, Thunder Bay, Canada	
11:15 AM	Optimizing Intranasal Delivery of Peptides for Targeted Brain Drug Delivery in Transgenic Mouse Models of Alzheimer's Disease Jerry Wong, Ph.D. Macquarie University, Sydney, Australia	
11:30 AM	Lactobacilli Inhalation Powders as Antibacterial Agents Against S. Aureus Stefania Gileca, M.Sc. University of Parma, Parma, Italy	
11:45 AM	Presentation of VCU RDD Peter R. Byron Graduate Student Award <i>Michael Hindle, Ph.D.</i> <i>Peter R. Byron Distinguished Professor</i> <i>Virginia Commonwealth University, Richmond, Virginia, USA</i>	
12:00 PM	SESSION 4 ENDS • POSTERS & EXHIBITION Lunch Provided	Congress Center Hall A
2:00 PM - 4:00 PM	SESSION 5: MDIs in Transition: Evolving Science and Regulation	Auditorium
	Moderator: Stephen W. Stein, M.Sc.	
2:00 PM	Safety Overview of Zephex [®] 152a as a Low GWP Medical P Isaac Mohar, Ph.D., DABT Gradient, Seattle, Washington, USA	ropellant
2:30 PM	A Priori Formulation Design of Solution Metered Dose Inhalers with Next Generation Propellants David A. Lewis, Ph.D. Oz-UK Limited, Chippenham, United Kingdom	
3:00 PM	FDA's Current Perspectives on the Propellant Transition: Work Towards Global Harmonization (Invited, Delivered via Teleconference) Elizabeth R. Bielski, Ph.D. Food and Drug Administration, Silver Spring, Maryland, USA	
3:30 PM	Navigating the Regulatory Landscape: Advances in Respiratory Modeling and Simulation Jan de Backer, Ph.D. FLUIDDA, New York, New York, USA	
4:00 PM	SESSION 5 ENDS • POSTERS & EXHIBITION Light Refreshments Served	Congress Center Hall A



Auditorium

Chair and Advocate: Geraldine Venthoye, Ph.D., Phillips Medisize, Basel, Switzerland

Panel:

Jan de Backer, FLUIDDA Jayne Hastedt, JDP Pharma Consulting Darragh Murnane, University of Hertfordshire David Shorthouse, University College London Carla Vozone, Catalent

5:30 PM SESSION 6 ENDS

7:30 PM

Gala Dinner "Let's Celebrate 20 Years" Sud Lisboa Hall

Sponsored by Aptar

Please assemble in front of the Estoril Congress Center at 6:30 PM. Buses will depart from the Congress Center at 6:45 PM for the approximately 30-minute drive to Sud Lisboa. Return by bus between 10:30 PM and 1:00 AM

> JOIN US FOR A GALA DINNER CELEBRATING 20 YEARS OF RDD EUROPE

Let's Celebrate 20 Years

Hosted by Aptar Pharma at SUD Lisboa



FRIDAY • MAY 9 • 2025

7:30 AM	Registration & Welcome Coffee	Congress Center Reception
8:30 AM	POSTERS & EXHIBITION Posters & Exhibit Tables will be available for viewing between 8:30 AM and 12:30 PM	Congress Center Hall A
9:00 AM — 10:00 AM	SESSION 7: Aqueous Agenda: Advances in Formulation & Devices	Auditorium
	Moderator: Darragh Murnane, Ph.D.	
9:00 AM	Acoustic Wave Nebulization: Reshaping Ultrasonic Nebulizers for the Future Elijah Nazarzadeh, Ph.D. Nebu~Flow, Glasgow, United Kingdom	
9:30 AM	Al Formulation Science for Solutions: A Semi Self-Driven Robotic Formulator David Shorthouse, Ph.D. University College London, London, United Kingdom	
10:00 AM	SESSION 7 ENDS • POSTERS & EXHIBITION Light Refreshments Served	Congress Center Hall A
10:30 AM - 12:00 PM	SESSION 8: Nasal Spotlight: Advances in Systemic & Nose-to-Brain Delivery	Auditorium
	Moderator: Julie D. Suman, Ph.D.	
10:30 AM	A Physiologically-Based Pharmacokinetic Model to Predict Nose-to-Brain Drug Delivery Will Ganley, Ph.D. Nanopharm, Cwmbran, United Kingdom	
11:00 AM	Leveraging Nasal Powders for Complex Therapeutics a Patricia Henriques, Ph.D. Hovione, Lisbon, Portugal	nd Targeted Delivery
11:30 AM	Next-Generation Soft Mist Nasal Sprays for Intranasal Delivery of CNS Therapies Nicolas Buchmann, Ph.D. Resyca, Enschede, The Netherlands	
12:00 Noon	SESSION 8 ENDS Lunch Provided	
2:00 PM	End of RDD Europe 2025	