





International Conference & Galenus Workshop

Exploring the Future of Inhalation Drug Delivery

Parma, Italy, 11th-13th September 2024

TUESDAY September 10	
Activity	Time
Registration	
Placing of the poster on the board Setting up the exhibitors' tables	16:00-19:00

WEDNESDAY September 11			
Speaker	Title	Time	
Prof. Paolo Martelli (University Rector) Cornelia Désirée Sonntag (Galenus Foundation) Francesca Buttini (University of Parma)	Conference Opening: Welcome and Introduction	9:00-9:25	
New Paradigms in Lung Delivery			
Chairs: Ruggero Bettini & Jayne Hastedt			
Keynote 1: David Edwards (Harvard University, US) Michael Hindle	Global warming is dehydrating human airways: rehydrating with hypertonic divalent salt aerosols treats chronic cough Development of a lung surfactant powder	9:25-10:00	
(Virginia Commonwealth University, US)	aerosol product for babies with respiratory distress syndrome	10:00-10:25	
Pavan Muttil (University of New Mexico, US)	Formulation development and preclinical evaluation of aerosol vaccines: challenges, opportunities and lessons learnt	10:25-10:50	
COFFEE BREAK + POSTER SESSION			







Ch	Chairs: John Patton & Anna Maria Piras			
Nicolas Tsapis (Paris-Saclay University, France)	Nanomedicines and microparticles for the treatment of pulmonary diseases	11:30-11:55		
David Cipolla (Insmed, US)	Preclinical and CMC development of treprostinil palmitil inhalation powder	11:55-12:20		
Paul Hagedoorn (University of Groningen, Netherlands)	The development of pulmonary levodopa applications for patients with Parkinson's disease	12:20-12:45		
L	IGHT LUNCH + POSTER SESSION			
Respiratory Tree	as a Site for Novel Therapeutic Approa	aches		
Chairs: Robert Price & Ayca Yildiz Peköz				
Tomaso Guidi (Chiesi Farmaceutici, Italy)	Inhaled biologics: current trends in the industry	14:30-14:55		
Francesca Buttini (University of Parma, Italy)	The formulation of protein and probiotics in dry powder inhalers	14:55-15:20		
Mirjam Kobler (H&T Presspart, Germany)	The Sunriser – achieving high performance in challenging formulations	15:20-15:35		
Andreas Boeckl (Flurry Powders, US)	Dry powder inhalation as an alternative to smoked and vaped cannabis	15:35-15:50		
COFFEE BREAK + POSTER SESSION				
Ch	nairs: Fabio Sonvico & Daniela Traini			
Regina Scherließ (Kiel University, Germany)	Nasal vaccine technology	16:30-16:55		
Ben Forbes (King's College London, UK)	Nose-to-brain delivery of biopharmaceuticals and other drugs	16:55-17:20		
Antonella Grigoletto (University of Padova, Italy)	Therapeutic potential of a long-acting form of rhDNAse for the treatment of cystic fibrosis	17:20-17:35		
Carolina Dantas (Pulmotree, Germany)	Assessing the impact of using realistic breathing profiles for regional lung deposition models	17:35-17:50		







WELCOME RECEPTION

18:00-19:30







THURSDAY September 12				
Speaker	Title	Time		
	Biologics Love Lungs			
	Chairs: Gaia Colombo & Ulf Krüger			
Keynote 2: Hugh Smyth (University of Texas at Austin, US)	Developing inhaled mAbs and nucleic acids for therapeutic success	9:00-9:35		
Jenny Lam (University College London, UK)	How to make antibodies formulation stable and inhalable	9:35-10:00		
Chiara Migone (University of Pisa, Italy)	Repurposing of plasminogen based eyedrops for ARDS inhalable treatment: stability enhancement in O ₂ with HP β CD	10:00-10:15		
Environmental Prote	ection Becomes a Reality in the Develo pMDI	opment of		
Cha	Chairs: David Lewis & Geraldine Venthoye			
Paul Young (OzUK, UK)	Breathing green: navigating the transition from HFAs to low GWP propellants in inhalation products	10:15-10:40		
CC	OFFEE BREAK + POSTER SESSION			
Simon Gardner (Bespak, UK)	Navigating the green propellant transition - strategies for the development & commercialisation of low global warming potential pMDIs	11:20-11:35		
Angelo Matturro (Chiesi Farmaceutici, Italy)	Innovative drug development approach to address the transition to low GWP propellant using HFA 152a, for triple combination pMDI product targeting small airways	11:35-11:50		
Chris Baron (Aptar Pharma, France)	Key learnings and pathways forward. Circumnavigating the challenges of your low GWP pMDI transition programs	11:50-12:05		
Sergio Monti (RxPack, Italy)	Shifting tides: pMDI market scenarios into the low GWP propellant transition	12:05-12:20		
David Lechuga (AstraZeneca, US)	Engineered excipient particles facilitate transition to low global warming potential propellants in a combination pMDI product	12:20-12:45		







LIGHT LUNCH + POSTER SESSION

Last Frontiers in Lung Infection			
Chairs: Paolo Colombo & Mercedes Gonzales Juarrero			
Keertan Dheda (University of Cape Town, South Africa)	Challenges in the prevention and management of drug-sensitive and drug-resistant Tuberculosis	14:15-14:40	
Lea Ann Dailey (University of Vienna, Austria)	A liposomal formulation strategy for inhaled bedaquiline: in vivo pharmacodynamics and pharmacokinetics	14:40-15:05	
Francesca Ungaro (University of Naples Federico II, Italy)	Novel formulation approaches to tackle lung barriers to inhaled antimicrobials	15:05-15:30	
CC	OFFEE BREAK + POSTER SESSION		
Award Committee: Jayne Hastedt, Anthony Hickey, John Patton			
PhD Students Contest Seven7th	Seven talks of 10 minutes selected from abstract submission	16:00-17:15	
Heba Banat (University of Szeged)	Enhancing pulmonary delivery of keto comparative study of spray drying app		
Susy Brusco (University of Napoli Federico II)	PEI-engineered lipid@PLGA hybrid nanop multimodal delivery of antigens and immur to the respiratory mucosa		
Laure-Anne Bya (University of Liege)	Formulation of a dry powder for inhalation combining ciclesonide and indacaterol		
Alexandre Caumon (Paris-Saclay University)	Formulation of antiviral Succinate-based analogues into dry powders for lung administration		
Lore Herman (Ghent University)	Exploring the interface between pulmonary surfactant and RNA-based nanomedicines		
Alexandra Hübl (Goethe University Frankfurt)	Development and characterization of spray-dried nano- in-microparticles for asthma treatment		
Alessandra Sorano (University of Florence)	Effects of a novel inhaled lidocaine powder formulation on cough threshold to nebulised distilled water in humans		







FRIDAY September 13			
Speaker	Title	Time	
	New Research		
	Chairs: Irene Rossi & Alan Watts		
Federico Lavorini (University of Florence, Italy)	Physiological and technological barriers in the treatment of obstructive airway diseases	9:15-9:40	
Jan de Backer (FLUIDDA, US)	The role of digital twins and in-silico trials as regulatory tools for the authorization of orally inhaled drugs	9:40-10:05	
Carsten Ehrhardt (Trinity College, Ireland)	Uptake mechanisms of molecules released into the lungs	10:05-10:30	
Yannick Baschung (Solvias AG, Switzerland)	Enhancing respiratory therapy with digital inhalers: Insights from multi-modal experimental and in-vitro analysis	10:30-10:45	
	Announcement of PhD Student Award COFFEE BREAK + POSTER SESSION		
Ch	nairs: Ben Forbes & Anthony Hickey		
Daniela Traini & Julie Suman (Macquarie University, Australia & Aptar, US)	Non-clinical tests in the evaluation of inhaled pharmaceuticals	11:15-11:40	
Per Bäckmann (Emmace, Sweden)	Physiologically-based biopharmaceutical models- a tool to understand local and systemic exposure of inhaled medicines	11:40-12:05	
Sharareh Salar-Behzadi (RCPE, Austria)	Lipid-based drug delivery for inhaled therapeutics	12:05-12:30	
Noémi Stefánia Csaba (University of Santiago de Compostela, Spain)	A multi-stage pulmonary drug delivery system based on sporopollenin	12:30-12:55	
Francesca Buttini	CLOSING REMARKS	12:55-13:00	







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