

REMEDIA Symposium 3rd June 2025

The COMET Meeting Louise, Place Stéphanie 20, 1050 Brussels, Belgium
And online

Register for participation here: <u>h2020-remedia.eu/symposium</u>



13:00 – 14:00 Welcome of participants with lunch buffet

14:00 - 14:15	General presentation of REMEDIA by Sophie Lanone (INSERM, France)
14:15 - 15:45	Data integration and exposome-phenotype associations
	14:15 – 14:30 - "Effects of residential greenness and exposure to outdoor pollutants during pregnancy on childhood asthma, rhinitis, eczema, and their comorbidity: findings from the French mother-child cohort Pélagie" by Alan Ricardo Patlán- Hernández and, Bénédicte Jacquemin (INSERM, France).
	14:30 – 15:00 - "NO2 WHO guidelines threshold exceedances during pregnancy and risk of childhood asthma, rhinitis, and eczema" by Alan Ricardo Patlán-Hernández and Bénédicte Jacquemin (INSERM, France).
	15:00 – 15:15 - "Uncovering Cystic Fibrosis Patient Profiles and Exposome Associations through Unsupervised Multidimensional Phenotyping" by, Ralph Epaud (CHI Créteil, France), Michelle Leemans and Etienne Audureau (INSERM, France).
	15:15 – 15:30 - "Long-term Air Pollution Exposure and COPD: Findings from Danish Cohort Studies" by Manuella Lech Cantuaria and Mette Sørensen (Danish Cancer Institute, Denmark).
	15.:30 – 15:45 - "Air pollution and environmental typologies: towards more representative exposure indicators" by Taos Benoussaid, Adriana Coman, and Isabelle Coll (LISA, Université Paris Cité, France).
15:45 – 16:15	Simulation of exposome in preclinical models
	15:45 – 16:00 - "A coupled atmospheric simulation chamber system for the production of realistic aerosols and preclinical model exposure" by Spyros Pandis (FORTH, Greece).
	16:00 – 16:15 - "From the laboratory exposure experiments results to the future AQ and Health public policies" by Patrice Coll (LISA, Université Paris Cité, France).

16:15 - 16:30 PAUSE

16:30 – 17:00	Sensor Toolkit
	16:30 – 16:45 - "A biosensor device for a panel of selected molecular biomarkers in exhaled breath condensate" by Mehran Khorshid (KUL, Belgium).
	<mark>16:45 – 17:00</mark> - "Body-worn multi-pollutant sensor device" by Gerhard Pohlman (Fraunhofer, Germany).
17:00 - 17:35	Risk Assessment and Economic evaluation
	<mark>17:00 – 17:10</mark> - "Multicriteria Risk Assessment of Exposome Factors: Geospatial Mapping across Europe" by Ariel Beresniak (DMI, Switzerland).
	17:10 – 17:20 - "Econometric Modelling of COPD Mortality and Cystic Fibrosis Prevalence in Europe" by Ariel Beresniak (DMI, Switzerland).
	<mark>17:20 – 17:25</mark> - "Legal and Ethical Assessment of Public Health Recommendations Targeting Pulmonary Diseases" by Laurent Niddam (Wellspring Kft, Hungary).
	17:25 – 17:35 - "Cost-Benefit Modelling of CFTR Modulators in the Treatment of Cystic Fibrosis" by Ariel Beresniak (DMI, Switzerland).
17:35 - 17:50	REMEDIA's results from a clinical perspective by Ralph Epaud (CHIC Créteil, France).
17:50 – 18:00	REMEDIA Toolbox by Sophie Lanone (INSERM, France).



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About REMEDIA

The REMEDIA project focuses on understanding the impact of the exposome, which encompasses all environmental exposures from the perinatal period onwards, including diet, behaviour, and endogenous processes on the severity and morbidity of Chronic Obstructive Pulmonary Disease (COPD) and Cystic Fibrosis (CF) throughout the disease, aiming at providing key elements to design more tailored prevention and care programs. Our research integrated multiple datasets, atmospheric simulation chambers as well as the use of biosensors to study how these exposures affect COPD and CF. By analysing patient cohorts throughout their lives, we aimed to identify modifiable risk factors and predict disease risk more accurately.

The resulting REMEDIA toolbox integrates the different activities (e.g. integration of multiple data sets, simulation chamber, sensor devices and more) developed throughout the project.