



K-HEALTHinAIR

Knowledge for improving indoor AIR quality and HEALTH

K-HEALTHinAIR Final Scientific Conference

“Healthy Indoors: Innovation and Research in Air Quality”

Monday June 22nd

Opening Ceremony

9:00-9:45

- Jesús Julio Carnero — *Alcalde de Valladolid*
- Javier García Frade — *Presidente de la Real Academia de Medicina y Cirugía de Valladolid*
- Juan Manuel Arnáiz — *Jefe del Servicio Territorial de Sanidad de Valladolid*
- Sergio Sanz — *Subdirector General de CARTIF*
- Alicia Armentia — *Ethical advisor K-HEALTHinAIR y catedrática en la Universidad de Valladolid*
- José Feroso — *Coordinador del proyecto K-HEALTHinAIR*

Session 1 – Indoor Pollutants and Microbiome Dynamics

Moderator:

Artur Badyda (Warsaw University of Technology, WUT)

Keynote Speaker:

Stefan Schumacher (Institut für Umwelt & Energie, Technik & Analytik e.V. (IUTA))

Air Cleaning Technologies for Particles, Gases, and Microorganisms: Principles, Effectiveness, and Limitations

13:30-14:00

Oral presentations:

Alberto Rodriguez
CIEMAT

14:00-14:15

Assesment of VOCs in Urban Transitional Enviroments: seasonal monitoring in a metro station and public market in Barcelona

Maria Sol Montaluisa
Universidad de Valladolid (UVa)

Integrated Plant-Microbe Mechanisms Driving VOC Removal in Botanical Filtration Systems

14:15-14:30

Gonzalo Sánchez
ICP-CSIC

Broad-Spectrum Photocatalytic Air Disinfection for Healthcare Indoor Environments: From Pathogen Inactivation to Real Hospital Validation

14:30-14:45

Adam Muszyński
Warsaw University of Technology (WUT)

Microbes and PAHs in Indoor Air of Polish Schools

14:45-15:05

Marta Sacristán
Universidad de Valladolid (UVa)

Impact of Summer Outdoor Pollution and Heatwaves on Bedroom Indoor Air Quality in Social Housing

15:05-15:20

Session 2- Health Outcomes and Clinical Evidence Related to IAQ

Moderator:

Josep Roca (Fundació de Recerca Clínic Barcelona - Institut d'Investigacions Biomèdiques August Pi i Sunyer (FRCB-IDIBAPS))

Keynote Speaker:

Alicia Armentia
Allergy Unit
Hospital Universitario Río Hortega.
University of Valladolid. Spain

15:35-16:00

*Allergy in children to illicit drugs,
tobacco and alcohol*

Oral presentations:

Maria del Mar Barbero
Universidad Politécnica de Madrid

*Does a high air infiltration rates improve
at indoor air quality?*

16:00-16:15

Hanns Moshhammer
Medical University of Vienna
*Environmental Determinants of
Physical and Cognitive Health in
Schoolchildren*

16:15-16:30

Alba Gómez-López
Fundació de Recerca Clínic Barcelona -
Institut d'Investigacions Biomèdiques
August Pi i Sunyer (FRCB-IDIBAPS)

*Household Air Quality in Chronic
Obstructive Respiratory Diseases:
Actionable Insights for Clinical Practice*

16:30-16:45

Carla Martins
National School of Public Health, NOVA
University of Lisbon

*Attributable Burden from Indoor Air
Pollution Across Four European
Countries: A Multi-Centre Study*

16:45-17:00

Josep Roca
Fundació de Recerca Clínic Barcelona -
Institut d'Investigacions Biomèdiques
August Pi i Sunyer (FRCB-IDIBAPS)

*Oscillometry in Chronic Respiratory
Diseases: Towards Improved
Standardization for Clinical Practice*

17:00-17:15

Tuesday June 23th

Session 3- Low-Cost Sensors and Continuous IAQ Monitoring

Moderator:

Maria Figols (InBiot Monitoring)

Keynote Speaker:

Sotirios Papathanasiou
GO AQS

Low-Cost Air Quality Sensors 101: The Tech, the Truth, and the Trade-offs

9:00-9:30

Oral presentations:

Dominik Heß
MANN+HUMMEL GmbH

Air Purifiers as a means to improve air quality in challenging environments.

9:30-9:45

Ilknur Ayri
İzmir Institute of Technology

Assessment of Indoor Environmental Quality in a Windowless University Classroom with Low-Cost Multi-Sensors in İzmir, Türkiye

9:45-10:00

Francisco Javier Rey Martínez
Universidad de Valladolid
Evaluation and Monitoring of Indoor Environmental Quality in the Pathology Department at Río Hortega University Hospital (Valladolid)

10:00-10:15

Maidá Domat
Universidad de Oviedo

Design and Deployment of a Low-Cost Sensor Network for Continuous Indoor-Outdoor Air Quality Monitoring

10:15-10:30

Session 4- Data Analytics, Artificial Intelligence and Standardised Methodologies for IAQ Assessment

Moderator:

Sotirios Papathanasiou (GO AQS)

Keynote Speaker:

Mario Lovric
Institute for Anthropological Research

*Data Analytics, Artificial Intelligence,
and Standardized Methodologies for
IAQ Assessment*

11:00-11:30

Oral presentations:

Maria Figols
InBiot Monitoring

*Impact of Occupancy Dynamics on
Indoor CO₂ Forecasting Across Real-
World Scenarios*

11:30-11:45

Prospero Garcia-Gallardo
HIT: Healthy indoor Technology

*"Focus 1%" approach to indoor air
quality: translational application of
targeted air purification technologies*

11:45-12:00

Miguel Escribano
InBiot Monitoring

*Architectural guardrails for AI-mediated
IAQ assessment: real-time reasoning,
intent-adaptive outputs across WELL,
GO IAQS, WHO and EPBD*

12:00-12:15



Session 5- Policy, Roadmap and Stakeholder Perspectives for IAQ

Moderator:

Natalia Allegretti (Global Health Conector)

Keynote Speaker:

Alexander Borg
The Lisbon Council

Charting the Course to Healthier Indoors: The IDEAL Cluster Roadmap for IAQ in Europe and Beyond 13:15-13:45

Oral presentations:

Leticia Pérez
Kveloce

From awareness to action: K-HEALTHinAIR's strategic Approach to stakeholder engagement and policy translation for Indoor Air Quality 13:45-14:00

Giorgos Panaras
Aristotle University of Thessaloniki

Net4CleanAir: A COST Action for Indoor Air Cleaning Technologies 14:00-14:15

Roundtable session

- Alexander Borg
The Lisbon Council
- Leticia Pérez
Kveloce
- Natalia Allegretti
Global Health Conector
- Armando Ruiz
Asma y Alergia España 14:15-15:15
- Juan Manuel Arnáiz
Servicio Territorial de Sanidad de Valladolid
- Dr Cloé Desmet
European Commission Joint Research Centre