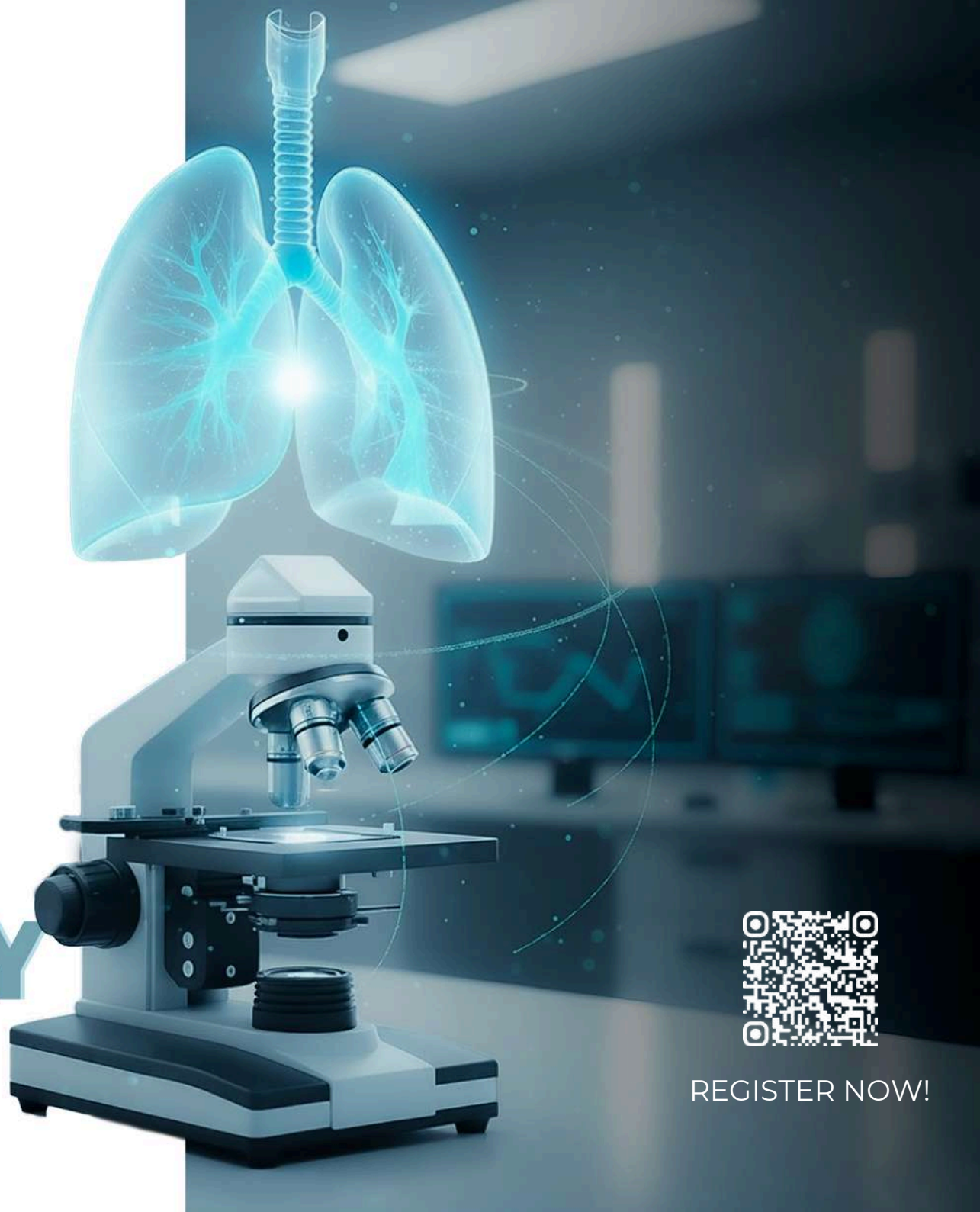
RespirERA
IHU Côte d'Azur

AI in the next world of THORACIC PATHOLOGY



6–7 OCTOBER 2026
LE SAINT PAUL HOTEL, NICE, FRANCE

REGISTER NOW!

IHU RespirERA

RespirERA
IHU Côte d'Azur
Respiratory Health
Environment & Ageing

A center of excellence in respiratory health

The IHU RespirERA, founded in Nice in 2023, is a pioneering university hospital research institute in the fight against age- and environment-related respiratory diseases. Its main objective is to transform medical practices through a personalized approach that takes into account the impact of the environment and the unique biological characteristics of each patient.

The IHU is committed to revolutionizing the diagnosis, treatment, and prevention of chronic respiratory diseases and lung cancer. By combining advances in biology, artificial intelligence, and precision medicine, it offers tailor-made solutions to improve patient care.

A holistic approach

Based in Nice, the IHU RespirERA uses the PACA region as a "living laboratory" to explore the impact of aging and environmental factors on respiratory health. The IHU benefits from state-of-the-art infrastructure, including 14 research laboratories, a renowned pulmonology department, and an artificial intelligence center collaborating with INRIA. These resources enable it to explore crucial issues such as population aging and the impact of environmental factors, particularly pollution, on respiratory health.

The institute adopts an integrated and multidisciplinary strategy, mobilizing biomarkers of aging and the environment, biotechnologies, and multi-omic data analysis. This synergy promotes major advances in research, reducing the need for invasive diagnostics and developing treatments tailored to each patient.

A commitment to sharing knowledge

IHU RespirERA is also committed to sharing its advances by involving students, healthcare professionals, industry partners, and patients themselves. This close collaboration ensures that the progress made is widely applied to achieve lasting improvements in health outcomes.

By placing innovation, personalization, and collaboration at the heart of its activities, the IHU RespirERA is a key player in responding to current and future challenges in respiratory diseases.

Program

Speakers

Nicholas AYACHE
(IHU RespirERA, Nice, France)

Hervé DELINGETTE
(IHU RespirERA, Nice, France)

Paul HOFMAN
(IHU RespirERA, Nice, France)

Marius ILIÉ
(IHU RespirERA, Nice, France)

Philippe JOUBERT
(Quebec, Canada)

John LE QUESNE
(Glasgow, UK)

Fernando LOPEZ-RIOS
(Madrid, Spain)

Umberto MALAPELLE
(Naples, Italy)

Guylène RIGNOL
(IHU RespirERA, Nice, France)

Albrecht STENZINGER
(Heidelberg, Germany)

Jan H. VON DER THUSEN
(Rotterdam, Netherlands)

François GHIRINGHELLI
(IHU RespirERA, Dijon, France)

Denis HORGAN
(Brussels, Belgium)

Mihaela ALDEA
(Villejuif, France)

Danni JONIGK
(Hanover, Germany)

Program

October 6th

8:15 AM – 8:30 AM
Introduction
Paul Hofman (IHU RespirERA, France)

Session I

Chairperson: Albrecht Stenzinger

8:30 AM – 9:00 AM
Inria (Sophia Antipolis, France) as a Founder Member of the IHU RespirERA
Nicholas Ayache (IHU RespirERA, France)

9:00 AM – 9:30 AM
AI-assisted Lung Cancer Classification and Grading
Jan H von der Thusen (Rotterdam, Netherlands)

9:30 AM – 10:00 AM
Lung cancer biomarker testing: practical tips for AI implementation
Fernando Lopez-Rios (Madrid, Spain)

10:00 AM – 10:30 AM
Coffee Break

10:30 AM – 11:00 AM
Self-supervised AI methods for Diagnosis and Discovery in Lung Cancer
John Le Quesne (Glasgow, UK)

11:00 AM – 11:30 AM
Patient Selection for Therapy in Lung Cancer based on Whole Slide Image Analysis
Hervé Delingette (IHU RespirERA, France)

11:30 AM – 12:00 PM
Lung Pathology in the AI Era: Where Do We Stand?
Marius Ilié (IHU RespirERA, France)

12:00 PM – 2:00 PM
Lunch Break

Program

October 6th

Session II

Chairperson: Mihaela Aldea

2:00 PM – 2:30 PM
Application of AI in LungCancer: Development of Predictive and Prognostic Biomarkers
Philippe Joubert (Quebec, Canada)

2:30 PM – 3:00 PM
Deep Learning-Based Assessment of PD-L1 Expression in NSCLC predicts outcome for patients treated with Anti-PD-1 Immunotherapy
François Ghiringhelli (IHU RespirERA, France)

3:00 PM – 3:30 PM
AI and *KRAS* Mutation Assessment in Lung Cancer, Current Situation
Guylène Rignol (IHU RespirERA, France)

3:30 PM – 4:00 PM
Clouds Across the New Dawn for Clinical, Diagnostic and Biological Data
Denis Horgan (Brussels, Belgium)

Program

October 7th

Session III

Chairperson: Fernando Lopez-Rios

9:00 AM 9:30 AM	**AI in Liquid Biopsy: A New Quantum Leap** *Umberto Malapelle (Naples, Italy)*
9:30 AM 10:00 AM	**Role of IA for molecular tumour board in thoracic oncology** *Mihaela Aldea (Institut Gustave Roussy, Villejuif, France)*
10:00 AM 10:30 AM	**AI tools in Lung Pathology: A new revolution is coming** *Danni Jonigk (Hanover, Germany)*
10:30 AM 11:00 AM	**Predictors of Immune Response in NSCLC using AI tools** *Albrecht Stenzinger (Heidelberg, Germany)*
11:00 AM 11:30 AM	**Computational Pathology and Lung cancer. Today and Tomorrow** *Paul Hofman (IHU RespirERA, France)*
11:30 AM 12:30 PM	**Round Table: the Future of AI in Thoracic Pathology, where are we ?** *All speakers*
12:30 PM 12:45 PM	**Conclusion** *Mihaela Aldea, Albrecht Stenzinger, Fernando Lopez-Rios, Paul Hofman*

Event Presentation

AI in the New World of Thoracic Pathology

Organized by IHU RespirERA, this international congress is an excellence gathering dedicated to the fusion of Artificial Intelligence and Thoracic Pathology. Held in Nice, this exclusive event brings together world-leading experts to explore how AI is reshaping tissue analysis, diagnostic workflows, and biomarker interpretation.

THE SCIENTIFIC MISSION

From fundamental research to concrete clinical applications, the program covers the full spectrum of innovation:

- Whole-slide image analysis & automated lesion classification.
- Prediction of therapeutic responses.
- Decision-support tools for lung and mediastinal diseases.

WORLD-CLASS EXPERTISE

Speakers from internationally recognized institutions will share their insights on the future of diagnostics:

- From IHU RespirERA: Nicholas Ayache, Hervé Delingette, Marius Ilié, Guylène Rignol, François Ghiringhelli, and Prof. Paul Hofman.
- International Guest Speakers: John Le Quesne, Jan H. von der Thüsen, Albrecht Stenzinger, Philippe Joubert, Fernando Lopez-Rios, Denis Horgan, Danni Jonigk, Mihaela Aldea and Umberto Malapelle.

Join us to foster knowledge exchange and support the integration of AI into the patient-care pathway.

RespirERA

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Contact us

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