

Date 30.07.2026

Deadline 08.10.2026

CONTACT

Organisation	Medical University of Lodz	Department	Department of Internal Medicine, Asthma and Allergy
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Country	Poland		

Organisation type

Research organisation type	☐ Research Organisation ☒ University ☐ Company ☐ Other (sole proprietorship, medical clinic)	Is your company a Small and Medium Sized Enterprise (SME*)? Number of employees:	☐ YES x NO > 2 000
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Your enterprise is an SME if:

- it is engaged in **economic activity**
- it has **less than 250 employees**
- it has either an **annual turnover not exceeding €50M**, or an **balance sheet total not exceeding €43M**
- it is **autonomous**

For the definition of SMEs, look at: http://ec.europa.eu/growth/smes/business-friendly-environment/sme-definition_en

Short introduction of key areas of institute's research:

The Department of Internal Medicine, Asthma and Allergy, Medical University of Lodz conducts translational research focused on chronic airway diseases, particularly asthma and Chronic Obstructive Pulmonary Disease (COPD). Our activities integrate clinical investigation with molecular and biomarker research to advance precision respiratory medicine.

Former participation in an FP European project?

☒ YES ☐ NO

Project title / Acronym:

Activities performed:

1. Identification of the molecular mechanisms of non-response to treatments, relapses and remission in autoimmune, inflammatory, and allergic conditions / 3TR
The Medical University of Lodz is a partner in the 3TR project, primarily responsible for research activities in the fields of asthma and chronic obstructive pulmonary disease (COPD). MUL is involved in quality assurance, ethical and regulatory compliance, personal data protection, and the development of European research platforms and biobanking resources within the 3TR consortium.
2. Climate change and air contamination: Artificial Intelligence applied on the correlation between air pollutants and non-communicable respiratory diseases in Europe / ClimAir
The Medical University of Lodz participates in the ClimAir project as a partner responsible for conducting research on the impact of climate change and air pollution on human health. The University's tasks include the identification and analysis of clinical data, participants recruitment, collection and processing of biological samples, participation in studies investigating immunological mechanisms associated with environmental exposures, and ensuring compliance with ethical requirements and regulatory standards. In addition, MUL leads activities related to the review and evaluation of interventions aimed at reducing the health impacts of air pollution and contributes to the development of recommendations and evidence-based guidelines for policymakers, healthcare professionals, and local communities.

Expertise / Commitment offered

Description of your expertise:

The Department has extensive experience in real-world evidence (RWE) studies, observational clinical research, biological therapies, biomarker discovery and validation, and implementation of innovative diagnostic and therapeutic approaches. We conduct prospective studies, develop translational research projects linking clinical phenotypes with molecular mechanisms, and collaborate with multidisciplinary academic and clinical partners.

Our research strategy is centered on translating scientific discoveries into clinical practice through precision medicine, validation of novel biomarkers, integration of digital health technologies, and participation in national and international collaborative research projects. The Department is actively expanding its role in European research initiatives, including Horizon Europe, Innovative Health Initiative (IHI), and EU4Health.

Keywords specifying your expertise:

Precision Respiratory Medicine; Translational Research; Real-World Evidence (RWE); Biomarker Discovery and Validation; Chronic Airway Diseases (Asthma & COPD)

Commitment offered:

☒ Research ☐ Demonstration ☐ Training
☐ Technology ☐ Dissemination ☐ Other:

Interested in participation in project types:

☒ Research & Innovation Action ☒ Innovation Action ☐ EIC Pathfinder

Work Programme research areas: indicate your interest

IHI

Call topic(s):

Topic 1 – "A Network to Boost the Next Wave of European Innovations in Healthcare"

Do you have other partners for this topic (which partners/country)?

Profile of partner sought

Role

☐ technology development ☐ research ☐ training
☐ dissemination ☐ demonstration ☐ other _____

Country /region

☐ Any

Expertise required

We are seeking academic, clinical, research, healthcare, industrial and technology partners with complementary expertise in:

- COPD, severe asthma and chronic respiratory diseases.
- Precision medicine, endotyping and biomarker-driven patient stratification.
- Translational respiratory research, including molecular biology, immunology, genomics, transcriptomics, proteomics and multi-omics.
- Artificial intelligence, machine learning and clinical decision support systems for respiratory medicine.
- Real-world evidence (RWE), patient registries, longitudinal cohort studies and observational research.
- Clinical trials, registry-based clinical studies, pragmatic trials and validation studies.
- Digital health, interoperable health data platforms and electronic health

records.

- Biobanking, biospecimen management and biomarker validation.
- Medical devices, companion diagnostics and technology validation.
- Health economics, HTA, implementation science and healthcare policy.
- Regulatory science, EMA/FDA pathways and post-marketing evidence generation.
- Patient organisations, citizen engagement and patient-reported outcomes.
- International research infrastructures and European collaborative networks (e.g. EATRIS, ECRIN, BBMRI-ERIC, ERS CRC).
- Pharmaceutical, biotechnology, MedTech and Digital Health companies interested in collaborative research, validation of innovative technologies and precision respiratory medicine.

We particularly welcome partners interested in developing multinational Horizon Europe and Innovative Health Initiative (IHI) projects focused on biological therapies in COPD, precision respiratory medicine, digital health, AI-supported clinical decision-making, biomarker discovery and validation, registry-based research, implementation science and sustainable European research infrastructures.

I agree with the publication of my contact data: ☒ YES

☐ NO