

Institute of Clinical Physiology of the National Research Council – Pisa (CNR-IFC)



The Pulmonary Environmental Epidemiology Unit (**EPAP**) of CNR-IFC is active in the field of environmental epidemiology and pulmonary medicine. It is composed of Pulmonologists, Epidemiologists, Biologists and Technicians.

EPAP has realized the two largest respiratory epidemiological longitudinal studies on general population samples in Italy (Pisa-Cascina and Po Delta area) and other epidemiological studies on work-related respiratory illnesses, community acquired pneumonia, cardio-respiratory and psychiatric co-morbidity, smoking cessation, international guidelines about respiratory diseases management and health effects of outdoor and indoor air pollution in schoolchildren, adolescents, elderly and general population and on development of allergic, metabolic and neuro-behavioural diseases during the first years of life, through research grants from: CNR, Italian Electric Energy Authority (ENEL), Italian Medicines Agency, Italian Ministries of Labour and of Health, European Commission.

IFC-CNR has experiences in multicentre national studies coordination.



From many years, EPAP collaborates closely with the research unit of Clinical and Environmental Epidemiology of Paediatric Lung and Allergic Diseases (**ECAMPAP**) of the Institute for Biomedical Research and Innovation (**IRIB-CNR**) of the CNR of Palermo.

The ECAMPAP unit collaborates in numerous national and international research projects, and carries out research in the field of paediatric allergology and pneumology, in particular on: specific immunotherapy, allergic inflammation, epidemiology of allergies, asthma and rhinitis therapy, evaluation of therapeutic adherence by using Health Technologies, development and validation of Patient Related Outcomes (PROs). ECAMPAP also carries out research in the field of environmental epidemiology, through the collaboration of biostatisticians specialized in the application of advanced Machine Learning techniques applied to BIG DATA.

The research group is composed of two paediatricians, a developmental psychologist, and two biostatisticians. Among the Research Associates, two Senior experts in Environmental Epidemiology stand out who have coordinated numerous national and international studies for the evaluation of health outcomes in children and adults from outdoor and indoor exposure.