

Short CV

Dr. Sandra Baldacci, graduated in Biological Sciences, is a permanent researcher at the Research Unit of Pulmonary Environmental Epidemiology of the Institute of Clinical Physiology, National Research Council (CNR), Pisa, Italy. She has developed skills in the design, management and analysis of environmental epidemiological surveys.

In particular, she has been involved in the realization of the two largest longitudinal studies on Italian general population samples (in the rural area of Po Delta and in Pisa) to investigate the natural history of Chronic Obstructive Pulmonary Disease (COPD).

Furthermore, she participated in epidemiological investigations on occupational respiratory diseases, community acquired pneumonia, cardio-respiratory and psychiatric comorbidity and smoking cessation. The main fields of interest are: 1. respiratory and environmental epidemiology with particular expertise in the development of protocols for the immuno-allergological characterization of the general population samples, 2 the evaluation of the role of environmental risk factors such as outdoor and indoor air pollution, 3. implementation of integrated information systems (data on pollens concentration, air pollutants concentration and medical recommendations) to prevent allergic diseases due to pollens in urban area, 4. implementation and management of a national register for severe asthma.

Participation in the following international research projects, funded by the European Community:

- "Geriatric study in Europe on health effects of air quality in nursing homes" (GERIE);
- "Interventions on Health Effects of Health Environment" (HESEINT);
- "Indicators for Monitoring of COPD and Asthma in the EU" (IMCA II);
- "Schools Indoor Pollution and Health: Observatory Network in Europe" (SINPHONIE);
- "Health and Environment-wide Associations based on Large Populations Survey" (HEALS);
- "Aerobiological information systems and allergic respiratory disease management" (AIS LIFE);
- "Long-term impact of gestational and early-life dietary habits on infant gut immunity and disease risk" (EARLYFOOD).

Participation in the following national research projects:

- "Epidemiological study evaluating the prevalence of mood and anxiety disorders and cardio-respiratory comorbidity in general practice setting", funded by Glaxo Smithkline Beecham;
- "Telephone survey to assess temporary changes, according to risk factors for respiratory symptoms / diseases, in the use of specific therapeutic groups of sub-samples of Po Delta, Pisa studies", funded by Glaxo Smithkline;
- "Respiratory Allergies: monitoring study of the Gina and Aria guidelines (ARGA)", funded by the Italian Drug Agency - AIFA;
- "Air Pollution and Health: Epidemiological Surveillance and Prevention Interventions (EPIAIR2)", funded by the National Center for Disease Prevention and Control (CCM) of the Ministry of Health;
- "Indoor School: Exposure to indoor pollutants: guidelines for the assessment of risk factors in the school environment and definition of measures for the protection of respiratory health of schoolchildren and adolescents", funded by the National Center for Prevention and Control of Diseases (CCM) of the Ministry of Health;
- "Evaluation of the short-term effects of exposure to ultrafine particulate matter in subjects with arrhythmia (PIASAR)", funded by the National Research Council;
- "Severe asthma: follow-up of epidemiological and clinical cohorts, by register and questionnaires; therapeutic appropriateness and assessment of outcomes, in relation to the GINA guidelines (AGAVE) ", funded by the Italian Drug Agency - AIFA;
- "BigData in occupational and environmental epidemiology (BEEP)", funded by the National Institute for Insurance against Workplace Accidents – INAIL;
- "Use of BIG data for the evaluation of the acute and chronic health Effects of air Pollution in the Italian population (BIGEPI)", funded by the National Institute for Insurance against Workplace Accidents – INAIL.

Didactic activity: teaching at the Faculty of Environmental Sciences of the University of Pisa; teaching in training courses for school staff, general practitioners, doctors and technicians involved in prevention and public health.

Reviewer, on behalf of the Editorial Committee, of national and international respiratory journals: Respiratory Medicine, European Respiratory Journal, BMJ Open, Clinical and Experimental Allergy, BMC Public Health, BMC Pulmonary Medicine, Pediatric Allergy and Immunology, Epidemiology and Prevention, Frontiers in Public Health.

To date she is author of 552 publications in English or Italian, including original articles, book chapters, conference proceedings and abstracts.