Message from the Coordinator

The AIS LIFE project is at the final phase. The group is working to finalise all project objective. This newsletter has focused at the AIS LIFE final meeting, occurred in Pisa the last 30th of May 2017. The meeting has been an international event, thank you the present of important researcher in Epidemiology and Aerobiology field.

In the website of the project www.aislife.eu you could find all presentation of the meeting.
Pollen bulletins in Tuscany

The aerobiological data are provided in Tuscan Territory. The chosen aerobiological stations are: Pisa, Firenze, Arezzo and Grosseto.

The study has considered the most common tree species in the Tuscan territory that are the highest responsible of allergy. Families considered were: Oleaceae (olive and ash), Fagaceae (Oak, beech and chestnut), Corylaceae (Hazel, hornbeam and white), Betulaceae (alder and birch), Cupressaceae (Cypress), Platanaceae (plane tree).
Pollen bulletins in Tuscany

The Municipalities of Tuscany have been grouped in four vast regions corresponding to the Regional Sanitary Districts.

Four aerobiological stations have been selected for aerobiological data collection. Each station is placed in a different Sanitary District and it represents the aerobiological reference station.

Aerobiological station in Pisa: The sampling procedure and the count of the airborne pollen grains and fungal spores is based on UNI 11108:2004 by Pollen Trap, VPPS 2000 (Fig. 1). Weather data were collected from a Davis Pro Vantage 2 (Fig. 2) weather station installed near the VPPS 2000, both on the flat roof of the building in the street Derna 1, 56126 Pisa, about 18 mt above ground (Fig. 3).
The record of aerobiological and meteorological station is used to create a map of pollen concentration, classified in high, medium, low or absent, for individual tree family in each area study. Buffering was defined and used to establish 'zones' around potential sources of aeroallergens that reflects the perceived area in which those sources could affect the population. Thus, two buffers around those sources with a diameter of 5 km and 10 km, were established. The buffer areas are indicated with the same colors (different tonality) according to the concentration of pollen source. For each allergic species the tendency of concentration trends (increasing, decreasing or steady) for the week to come is also provided. The distribution of pollen concentration maps provides useful information about the level of risk to patients depending on the geographic area and the considered species. The maps have been elaborated with the use of a geographic information system (GIS).
Final AIS LIFE meeting

Thursday 30th of May 2017
Area della Ricerca CNR
Edificio A, AULA 28
Via G. Moruzzi 1, 56124 Pisa, Italy

CONVEGNO
FINALE AIS LIFE
FINAL MEETING
AIS LIFE
STAKEHOLDER WORKSHOP

L’informazione sanitaria e ambientale nella prevenzione e nel trattamento delle malattie allergiche respiratorie
Health and environmental information for prevention and treatment of respiratory allergic diseases

PROGRAMMA - PROGRAMME
9:00 - Registrazione dei partecipanti / Registration of participants
SESSIONE 1 - STAKEHOLDER WORKSHOP: CLIMA, AMBIENTE E SALUTE
SESSION 1 - STAKEHOLDER WORKSHOP: CLIMATE, ENVIRONMENT AND HEALTH

MODERATORI - CHAIRPERSONS:
Alessandra Fori, Direttore della SOS di Allergologia e Immunologia Clinica di Prato -
Azienda Sanitaria Toscana Centro / SIAIC
Gianni Bedini, Dipartimento Biologico, Università di Pisa

9:30 - Saluti e apertura dei lavori - Welcome and opening of the meeting Overview del
progetto AIS LIFE / Overview of the AIS LIFE project
Simone Orlandini, Dipartimento di Scienze delle Produzioni Agro Alimentari e dell’Ambiente,
Università di Firenze

9:50 - Progetto MACVIA-LF “Combattere le malattie croniche per un Invecchiamento attivo
e sano nella Languedoc-Roussillon” / MACVIA-LF Project “Fighting Chronic Diseases for Active and Healthy Ageing in Languedoc-Roussillon”
Jean Bouquet, Centre Hospitalier Universitaire de Montpellier

10:20 - La qualità della vita nel paziente asmatico: strumenti di misurazione e impatto clinico
Quality of life of asthmatic patient: measurement tools and clinical impact
Italia Borandin, Allergy & Respiratory Diseases, Department of Internal Medicine- Genova University, Italy

10:50 - Coffee Break

11:20 - Inquinamento atmosferico e malattie allergiche respiratorie / Air pollution and
respiratory allergic diseases
Giovanni Vieggi, Istituto di Biomedicina e di Immunologia Molecolare "A. Moro" CNR, Palermo

11:50 - Pollini, inquinamento e malattie allergiche / Pollen, pollution and allergic diseases
Isabella Annesi-Maesano, Istituto Nazionale de la Santé et de la Recherche Médicale/Université Pierre et Marie Curie, Paris

12:20 - Il progetto MAPEC LIFE “Monitoraggio degli effetti dell’inquinamento atmosferico
sul bambini a supporto delle politiche di sanità pubblica” / MAPEC LIFE Project
“Monitoring air pollution effects on children for supporting Public Health Policy”
Anna Laura Carucci, Dipartimento di Biologia, Università di Pisa

12:50 - Discussione / Discussion

13:00 - Lunch

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LIFE13ENV/IT/001107
The final meeting has organized in two sections, the first in the morning, the second in the afternoon. In the first session, international different speakers have presented his work in aerobiology and epidemiology field. The afternoon section has focused of AIS LIFE Project. Each beneficiary has explained the progress of actions and the achieved results. Some stakeholder of Tuscany and patients involved in the study have been present.
Some pictures of the meeting
Press releases and Publications


Presentations at International Meetings, workshops and Dissemination
AIS Partners

University of Florence - Department of Agrifood Production and Environmental Sciences, Florence - Italy (UNIFI)

CNR Institute of Clinical Physiology, Pisa, Italy (IFC-CNR)

University of Pisa - Department of Biology, Pisa, Italy (UNIPI)

Medizinische Universität Wien, Vienna, Austria (MUW)

Réseau National de Surveillance Aérobiologique Lyon, France (RNSA)

Université Pierre et Marie Curie, Paris, France (UPMC)

Institut national de la santé et de la recherche médicale Paris, France (INSERM)
### Sandra Baldacci

Biologist, Career researcher of IFC-CNR. She has special competence in designing, conducting and analyzing epidemiological surveys. In particular, she has been involved in realizing the two largest epidemiological longitudinal studies on Italian general population samples (Po Delta and Pisa prospective studies) for better understanding the natural history of COPD. Her main scientific fields are respiratory epidemiology and environmental epidemiology with particular expertise in developing protocols for the immuno-allergological characterization of general population samples. Within AIS-LIFE project she is responsible of the IFC-CNR Pisa Unit involved in the actions:
- B1: Implementation of IIS and PPI in three countries (enrolment, randomisation, educational intervention)
- B2: Health assessment of Allergy Patients
- C2: Validation and comparison of the effectiveness of the two Aerobiological Information Systems
- D3: Stakeholder Involvement Activities
- D4: Target Audience / General Public Awareness Raising
- E1: Overall project operation.

### Sara Maio

Environmental scientist, Epidemiologist, temporary researcher of IFC-CNR. She has collaborated with IFC-CNR since 2004, focusing on the health effects of air pollution exposure, bronchial hyper-reactivity, depression and mood diseases, natural history and risk factors of COPD. Her main scientific fields are respiratory epidemiology and environmental epidemiology with particular expertise in using GIS technology, to relate the health status of the subjects to the environmental characteristics. Within AIS-LIFE project she is mainly involved in the following activities:
- preparation and implementation of the Aerobiological Information Systems
- preparation of questionnaires and diaries for data collection
- collaboration to the environmental monitoring activities
- execution of centralized statistical analysis
- dissemination of the obtained results.

### Sonia Cerrai

Biologist, Fellow of IFC-CNR. She has collaborated with IFC-CNR since 2008, focusing on the health effects of air pollution exposure. Her main scientific fields are respiratory epidemiology and environmental epidemiology with particular expertise in health data collection through questionnaires and clinical tools. Within AIS-LIFE project she is mainly involved in the following activities:
- preparation and implementation of the Aerobiological Information Systems
- preparation and implementation of the follow-up phase
- execution of centre-specific statistical analysis.
**Giuseppe Sarno**  
Environmental scientist, Fellow of IFC-CNR. He has collaborated with IFC-CNR since 2008, focusing on the evaluation of environmental exposure. His main scientific fields are respiratory epidemiology and environmental epidemiology with particular expertise in using instruments for the measurement of indoor/outdoor air pollutants concentration.  
Within AIS-LIFE project he is mainly involved in the following activities:  
- preparation and implementation of the Aerobiological Information Systems  
- preparation and implementation of the follow-up phase  
- management of the environmental monitoring  
- support to the coordination of activities at local level  
- maintaining contacts with the other partners participating in the project.

**Anna Antonietta Angino**  
Technician of IFC-CNR. She has collaborated with IFC-CNR since 1990, focusing on data extraction, database management and statistical analyses.  
Within AIS-LIFE project she is mainly involved in the following activities:  
- preparation and implementation of the Aerobiological Information Systems  
- quality control of database and statistical analysis  
- quality control of the environmental monitoring data.

**Patrizia Silvi**  
Technician of IFC-CNR. She has collaborated with IFC-CNR since 1989, focusing on supporting the general organisation of the scientific and logistic activities within several epidemiological studies.  
Within AIS-LIFE project she is mainly involved in the following activities:  
- collaboration to the preparation and translation of the tools for data collection during the field survey  
- implementation of the Aerobiological Information Systems  
- support to the administrative and logistic activities at local level.

**Stefania La Grutta**  
Medical Doctor, Pediatric Allergist, Senior researcher of IBIM-CNR. She has been involved as Coordinator of Palermo Centre of the SIDRIA-2 national study and the SEARCH (School Environment And Respiratory Health in Children) international study, in 2002-2004 and 2008-2010 respectively. Her research activity focuses on the epidemiologic evaluation of the effects of indoor/outdoor environments on allergic respiratory diseases in children and in the evaluation of the functional, immunopathological mechanisms of asthma/rhinitis and allergic diseases.  
Within AIS-LIFE project she is mainly involved in the following activities:  
- pulmonary consultation  
- medical recommendations for the Integrated Information System.
**WHO is WHO?**

**Gianni Bedini**

Gianni Bedini is a botanist serving at the Department of Biology, University of Pisa, Italy.

His main interests lie within plant conservation, seed germination, biodiversity distribution databases. He is also interested in the history, development and management of Botanic Gardens.

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**Franco Ruggiero**

Biologist, Fellow of the Department of Biology at the University of Pisa. He has collaborated with the Department of Biology since 2014. He has unique background in the fields of aerobiology, environmental monitoring, such as aerobiological, chemical monitoring and in meteorology. Specifically, he has demonstrated strong expertise in analysis and handling large aerobiological, air pollutants, meteorological data; laboratory techniques in environmental monitoring and weather forecast models.

Furthermore, he is the creator and developer of the AirPOLL – IIS (Integrated Information System) in Pisa.

Within AIS-LIFE project he is mainly involved in the following activities of the UNIPI Unit:

- Set up of an Integrated Information System (IIS)
- Implementation of IIS and PPI
- Monitoring of the long-term implementation of Aerobiological Information Systems
- Stakeholder Involvement Activities
- Target Audience / General Public Awareness Raising