

SUMMER SCHOOL

Environmental Health

From 14 to 18 June – Online from Ravenna (Italy)
Presentation Day 11 June



Environmental exposure to potential toxic substances occurs every day through air, soil, or water contamination. The current research focuses on risks related to chemical, biological, and physics agents in the environment, the work place and the food chain. Methods for investigation and assessment of risks to human health have been evolving in the last few years. During this five-day summer school, the students will be introduced to the various approaches used in risk assessment: exposure assessment, toxicology (the science of poisons) and epidemiology (the science of public health). Students will attend a series of lecture at an intermediate/advanced level and will participate in practical sessions. The course will be an introduction to the fields of exposure assessment, epidemiologic methods, risk assessment in toxicology, and epidemiology. At the end of the course, the students would acquire basic knowledge and skills in environmental health risk assessment.

ACADEMIC DIRECTOR: M. Domenicali

FACULTY: Tony Fletcher (London School of Hygiene and Tropical Medicine, London, UK); Frank Kelly (Imperial College London); Martin Paparella (University Innsbruck); Joel Schwartz (Harvard School of Public Health, Boston); C. Ancona (Dep Lazio, ASL Roma1); P. Angelini (Regione ER); L. Bisceglia (AReS Puglia); G. Bortone (Arpae ER); A. Colacci (Arpae ER); E. Fabbri (Unibo); F. Fava (Unibo); F. Forastiere (Irib-CNR); L. Lucentini (ISS); F. Parmagnani (Arpae ER), F. Passarini (Unibo); V. Poluzzi (Arpae ER); A. Ranzi (Arpae); E. Spisni (Unibo), P. Viale (Unibo).

TARGET GROUP: All types of three-year degrees, Master and Master's course with a strong background in biology, biomedical or environmental sciences, statistics and an interest in toxicology, epidemiology and environmental health as well as a good proficiency in English.

FEE: 250,00 Euro

APPLICATION DEADLINE: May 04, 2021

INFO: form@fondazioneflaminia.it Tel +393497587464

CALL FOR APPLICATIONS ON: www.unibo.it

June, 11

Presentation Day

- 14.00-14.10 Social Events Welcome to Ravenna
- 14.10-14.40 Welcome (Domenicali)
- 14.40-15.00 Environment and Health in the national system of environmental agencies (Bortone)
- 15.00-15.30 Environment and Health at Bologna University (Fava)
- 15.30-15.50 The Environmental and Health Italian Network (RIAS) (Ancona)
- 15.50 Break
- 16.00-16.20 Some historical remarks and the current debate on Environment and Health (Forastiere)
- 16.20-16.50 Course Introduction and practical tips (Colacci)
- 16.50-17.20 Participants' presentation

Day 1 June 14, 2021

Exposure Science (Chair Forastiere + Chat coordinator tbd)

- 9.00-9.40 Key note lecture** Integrated approaches to monitoring the environmental impact of industrial processes (Passarini) 10' Q&A
- 9.50 Break
- 10.00-10.50 Principles and advances in exposure assessment (Hoek) 10' Q&A
- 11.00-11.40 Introduction to GIS and modelling (Ranzi) 10' Q&A
- 11.50 Break
- 12.00-12.50 Principles and advances of epidemiologic studies (Schwartz) 10' Q&A
- 13.00-13.20 Examples of European studies (Forastiere) 10' Q&A
- Lunch break
- 14.30-16.00 Principles and advances of toxicological studies (Colacci)
- 16.00-16.30 General Discussion and key points Day1
- 16.30-17.00 SOCIAL EVENT

Day 2 June 15, 2021

Air pollution (Chair Ranzi + Chat coordinator tbd)

- 9.00-9.40 Key note lecture** The cardio-respiratory diseases (Domenicali) 10' Q&A
- 9.50 Break
- 10.00-10.50 General principles on air pollutants (Poluzzi) 10' Q&A
- 11.00-11.40 Epidemiological studies on the health effects of air pollution (Schwartz) 10' Q&A
- 11.50 Break
- 12.00-13.20 Groups activities (Ranzi) 10' Q&A
- Lunch break
- 14.30-16.00 Clinical and toxicological studies on the health effects of air pollution (Kelly)
- 16.00-16.30 General Discussion and key points

Day 3 June 16, 2021

- Water** (Chair Bortone (Ancona) + Chat coordinator tbd)
- 9.00-9.40 Key note lecture** The toxicity in aquatic organisms: how can it inform about risks to human health? (Fabbri) 10' Q&A
- 9.50 Break
- 10.00-10.40 General principals on water contamination (Lucentini) 10' Q&A
- 10.50 -11.30 Epidemiological studies on the health effects of water contamination (Tony Fletcher) 10' Q&A
- 11.40 Break
- 11.50-13.10 Italian Case study. (ARPA) 10' Q&A
- Lunch break
- 14.30-16.00 Clinical and toxicological studies on the health effects of water contamination (Colacci)
- 16.00-16.30 General Discussion and key points Day3
- 16.30-17.00 SOCIAL EVENT

Day 4 June 17, 2021

Health Impact Assessment (HIA) (Chair Colacci + Chat coordinator tbd)

- 9.00-9.40 Key note lecture** Environment and Nutrition: new challenges (Spisni) 10' Q&A
- 9.50 Break
- 10.00-10.50 Principles of Health Impact Assessment: epidemiological approach (Hoek) 10' Q&A
- 11.00-11.40 Dose response relationships: introductions and approaches (Ancona) 10' Q&A
- 11.50 Break
- 12.00-13.20 Principles of Risk Assessment (Paparella) 10' Q&A
- Lunch break
- 14.30-15.15 Case study (Bisceglia)
- 15.15-15.45 Participants' open space: put forward your ideas and experiences
- 15.45-16.10 Communication on environment and health issues (Angelini)
- 16.10-16.30 General Discussion and key points Day4
- 16.30-17.00 SOCIAL EVENT

Day 5 June 18, 2021

Air Pollution and COVID19 (Chair Colacci/Forastiere + Chat coordinator tbd)

- 9.00-9.40 Key note lecture** Clinical Aspects of COVID19 (Viale) 10' Q&A
- 9.50 Break
- 10.00-10.20 State of art of evidences (Forastiere) 10' Q&A
- 10.30-10.50 Air quality during Pandemic (Ranzi) 10' Q&A
- 11.00 Break
- 11.10-11.30 Air Pollution and COVID 19 (Colacci) 10' Q&A
- 11.40-13.10 Italian studies (Ancona/Ranzi/Bortone)
- Lunch break
- 14.30-16.00 Sustainable mobility in the third millennium: where are we going? (Parmagnani)
- 16.00-16.30 General Discussion and key points Day5
- 16.30-17.00 Final Comments (Colacci/Forastiere)
- 17.00-17.15 SOCIAL EVENT

APPLICATION DEADLINE: May 04, 2021

INFO: form@fondazioneflaminia.it

Tel +393497587464 (Whatsapp)

CALL FOR APPLICATIONS ON: www.unibo.it