



UNIVERSITÀ DI PAVIA  
Dipartimento di  
Biologia e Biotecnologie  
“Lazzaro Spallanzani”



COLLEGIO NUOVO  
FONDAZIONE SANDRA E ENEA MATTEI  
PAVIA



Fondazione  
INF-ACT

Dear Students,

It is with great pleasure that we share the final program of the “*Global Health, One Health*” intensive course. This intensive course is part of the “Università nei Collegi” offer of the University of Pavia and offers a unique opportunity to dive into the concepts of human, animal and environmental health as a whole. The lecturer, **Prof. Serap Aksoy (Yale University School of Public Health)**, is an expert vector biologist, with broad background in microbiology with specific training and expertise on the biology and epidemiology of insect transmitted (vector-borne) and zoonotic diseases. The course will include complementary lectures delivered by local experts (see program for details).

### TARGET AUDIENCE

The intensive Course is offered to Students of the University of Pavia at the M.S. and/or PhD level, in particular it has been built to meet the interest of Students within the following programs:

- Molecular Biology and Genetics
- Experimental and Applied Biology
- Advanced Biotechnologies
- Agri-Food Sustainability
- Medicine and Surgery
- Genetics, Molecular and Cellular Biology
- *One Health* Approaches to Infectious Diseases and Life Science Research

### WHEN AND WHERE

The “*Global Health, One Health*” Course will take place in the Aula Magna of Collegio Nuovo – Fondazione Sandra e Enea Mattei, Via Abbiategrasso, 404, **from Apr 13 to Apr 17**. Each day, two lectures will take place, one in the morning (11:00 AM – 1:00 PM) and one in the afternoon (2:00 PM – 4:00 PM). Individual student activities and assignments will integrate the study program.

You are kindly requested to register here:

<https://www.eventbrite.com/e/global-health-one-health-tickets-1983198167104>

### CONTACTS AND FURTHER INFORMATION

Prof. Federico Forneris – federico.forneris@unipv.it





**"GLOBAL HEALTH, ONE HEALTH" - DETAILED COURSE TIMETABLE:**

**Monday, Apr 13**

- 11:00 AM – 01:00 PM *One Health: A New Approach to Ensure the Well Being of People, Animals and the Environment. This lecture will provide an introduction to the historical and scientific perspective of the One Health Approach.*
- 02:00 PM – 04:00 PM *A multidisciplinary effort to fight against emerging and re-emerging pathogens in a One Health Perspective – Seminar by Prof. Federico Forneris*
- Pathogenic aspects of emerging and re-emerging viral infections – Seminar by Prof. Fausto Baldanti*

**Tuesday, Apr 14**

- 11:00 AM – 01:00 PM *One Health Diseases: Vector Borne Diseases. This lecture will introduce the major vector-borne diseases that are transmitted to people from animals and the transmission cycles that promote these infections.*
- 02:00 PM – 04:00 PM *One Health Diseases: Antimicrobial resistance emergence and management – Seminar by Prof. Raffaele Bruno*

**Wednesday, Apr 15**

- 11:00 AM – 01:00 PM *One Health Diseases: Control of Vector Borne Diseases and Research Areas that promote vector control. This lecture will provide applied perspectives (challenges and opportunities) for vector control and emerging research areas for better management of the available tools.*
- 02:00 PM – 04:00 PM *Strategies that involve genetic approaches for disease management – Seminar by Prof. Anna Malacrida*
- Genomic approaches for One Health – Seminar by Prof. Davide Sasserà*

**Thursday, Apr 16**

- 11:00 AM – 01:00 PM *Novel Vector control Methods : Symbiotic Control. This lecture will introduce role of microbiota in insects and applied strategies that have emerged for disease management that rely on vector microbiota*
- 02:00 PM – 04:00 PM *Practical Applications of the One Health Approach in Italy – Seminar by Prof. Anna Odone*

**Friday, Apr 17**

- 11:00 AM – 01:00 PM *Ecological perturbations that promote zoonotic diseases. This lecture will introduce environmental drivers that promote vector-borne diseases*
- 02:00 PM – 04:00 PM *The history of Wolbachia: how an intracellular bacterium led to novel approaches for the treatment of filarial diseases in humans and animals – Seminar by Prof. Claudio Bandi*