# Workshop in Animal Metabolism and Management



**From January, 30th to March, 3rd 2023**

**8 ECTS, 64 Hours
SSD AGR17**

## Learning Outcomes

At the end of the course, the student will be able to address selected frontier issues and open questions in the field of animal science, circular economy, safety of foods of animal origin, and animal breeding and genetics. The student will be able to critically assess current issues, trends and advancements in relation to the presented topics starting from concrete case studies, and will have an updated knowledge on the most recent perspectives in those fields.

## Course Contents and Organization

Different seminars given by national and international speakers on innovative topics and/or innovative approaches in specific thematic areas. See the schedule below:

**30/01/2023 - 03/02/2023**

### Genomics boot camp with a focus on livestock

*Assoc. Prof. Gabor Meszaros from University of Natural Resources and Life Sciences, Wien, Austria*

The workshop will be focused on the use of tools, visualizations and dedicated software for management and analysis of genomic data from DNA SNP genotyping platforms. At the end of the workshop the students will understand the structure of genomic data, learn how to perform quality control, and be able to perform selected analyses of genomic data for further applications.

**06/02/2023 - 10/02/2023**

### Pre-slaughter handling of pigs: effects on animal welfare and meat quality

*Prof. Luigi Faucitano from Agriculture and Agri-Food, Canada*

The workshop will summarize the most up to date knowledge on pig welfare during prelaughter handling, transport and slaughter, including its effect on meat quality. Participants willl be asked to evaluate a case study on the presented topics.

**20/02/2023 - 24/02/2023**

### Design, Implementation and Data processing

*Dr. Yari Vecchio from University of Bologna, Italy*

The proposed seminar will address the importance of data analysis, providing a clear outline of how to organize an experimental design, choose the right way to collect and store data, and analyze them

**27/02/2023 - 03/03/2023**

### Data extraction and analysis to assess biological risks within Circular Agrofood Systems seminars

*Dr. Ursula Gonzales Barron from CIMO -IPB, Portugal*

The contamination of food by microbial hazards is a global public health concern. The workshop will cover current modelling approaches to summarise the occurrence of pathogens in foods; to evaluate their growth, inactivation and survival along food processing; and to finally assess the risk they pose to consumers. The practicals will be mostly carried out using the R software, although other ready-to-use tools will be presented.

## CFU RECOGNITION AND ASSESSMENT METHODS

At the end of each seminar, a multiple choice test will be submitted to participants. Students who attend the 4 topics and pass the test will obtain 8 ects. For those who choose to attend only some of them: it is possible to have 2 ECTS recognised for each seminar (upon approval of the Council of the Degree Course you are attending). For details on the recognition procedure please contact dimevet.didattica@unibo.it

ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI SCIENZE MEDICHE VETERINARIE

**BOOKING DEADLINE**

Interested students have to submit their request **NO LATER THAN January, 20th 2023** through the Forms linked in the QR code beside