



Co-funded by the
Erasmus+ Programme
of the European Union



ERASMUS + PROJECT : AG-LAB

Project “Improving skills in laboratory practice for agri-food specialists in eastern Europe» (Ag-Lab)

Program Erasmus +, project KA2

n° 586383-EPP-1-2017-1-SI-EPPKA2-CBHE-JP (2017-2978/001-001)

Training report

Place: Wrocław University of Environmental and Life Sciences, 25, Norwida str., 50-375, Wrocław, Poland

Dates: 20-26 May 2021

Oleksandr Subin (PhD), Head of department of microbiological researches, State Centre of Agricultural Products Certification and Expertise

20.06.2021 (Sunday)

Arrival

21.06.2021 (Monday)

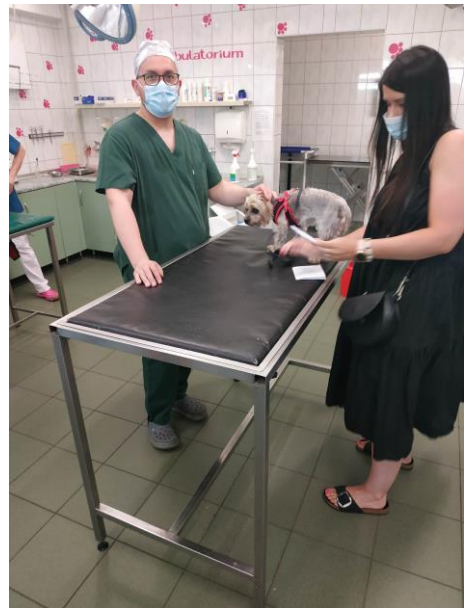
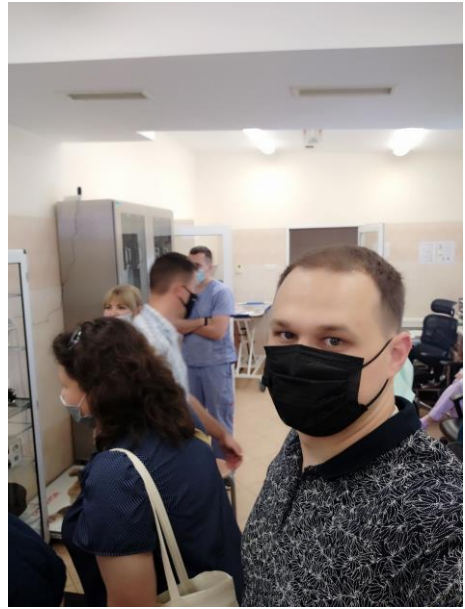
Official meeting with head of the International Relations Office Krzysztof Kafarski, meeting with Veterinary Faculty’s authorities. Tour of the university

The Wrocław Faculty of Veterinary Medicine, as an inheritor of the scientific achievements and traditions of the Lviv Academy of Veterinary Medicine, launched its activity on the 1 November 1945 as a department of the established from scratch University and Polytechnic of Wrocław.

For all the years of its existence, the Faculty rapidly and dynamically evolved in terms of infrastructure, scientific research as well as didactic activity. Presently, it is one of the five faculties which form the structure of the University of Environmental and Life Sciences. For almost 67 years, thanks to the commitment of the Faculty Employees, there has been created the approved and valued research and educational centre, being entitled to confer the following scientific degrees: PhDs and Higher Doctorates in veterinary science.

Currently, scientific and didactic staff constitutes more than 100 approved specialists in various disciplines of veterinary medicine. The researches carried out at the Faculty are appreciated by the domestic and foreign scientific community as well as by business entities.

The educational offer has aroused great interest among secondary school graduates, and the program and the quality of education are rated highly by both Students and the Veterinary Self-Government.



Detection of staphylococcal enterotoxin genes using PCR- workshop
(*dr Aleksandra Tabiś, Department of Food Hygiene*)

Dr. Aleksandra Tabiś presented basic theoretical concepts of PCR-method as a diagnostic tool for detection and identification different diseases, GMO, counterfeits and adulterants in agricultural, food production etc.



22.06.2021 (Tuesday)

Bird breeding and behavior

(*Joanna Rosenberger, PhD, Institute of Animal Breeding*)

1 - The scope of the Poultry Breeding Plant - with emphasis on breeding wild birds threatened with extinction

2 - presentation of equipment (incubators, devices for analyzing egg quality and embryo viability). Methods of assessing the fertilization of non-incubated eggs.

3 - demonstration of semen collection and freezing

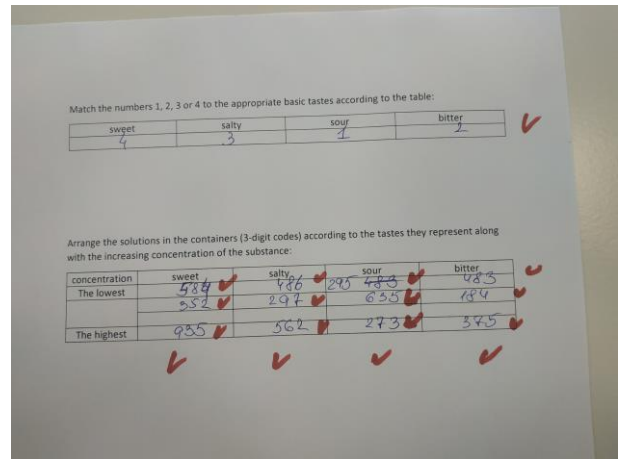
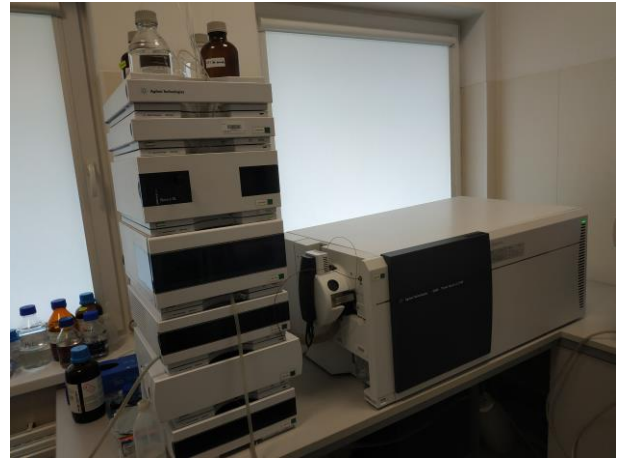


Sensory Analysis Methods

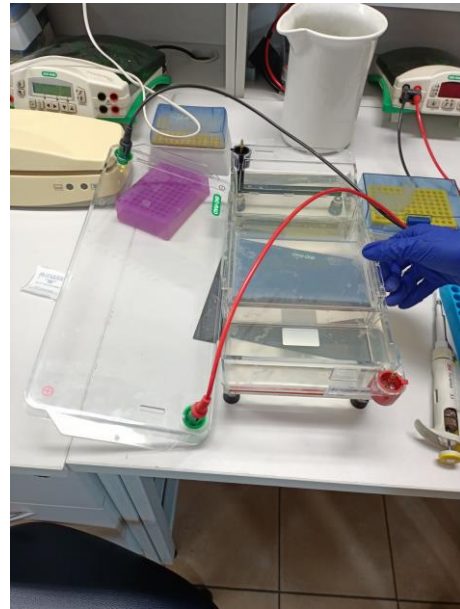
(Małgorzata Korzeniowska, Faculty of Biotechnology and Food Science)

In a first part Dr. *Małgorzata Korzeniowska* gave a lecture of basic concepts of sensory analysis. Sensory analysis a scientific discipline dealing with quality assessment performed by an assessment team with proven high sensory sensitivity using the senses: sight, smell, taste, hearing and touch using appropriate methods and maintaining certain external conditions that ensure precision, repeatability and reproducibility of the results

In a second parts were performed practical training of solution identification by sensory analysis.



23.06.2021 (Wednesday)
Detection of adulterations in food using PCR method
(dr Aleksandra Tabiś, Department of Food Hygiene)





**24.06.2021 (Thursday)
Visit to laboratories**

First part of visit was Epi-Vet laboratory of The Clinic of Infectious Diseases (microbiological, serological and mycological examination used in diagnosis of dogs and cat diseases and in cattle herds). During this visit was showed basic ways of laboratory activity, some scientific researches and equipment.



After that was visited a private accredited laboratory Agro-Vet (examinations of poultry production). During this visit was demonstrated main laboratory techniques which performing in the Lab.



25.06.2021 (Friday)

Visit in the official veterinarian laboratory in Wroclaw

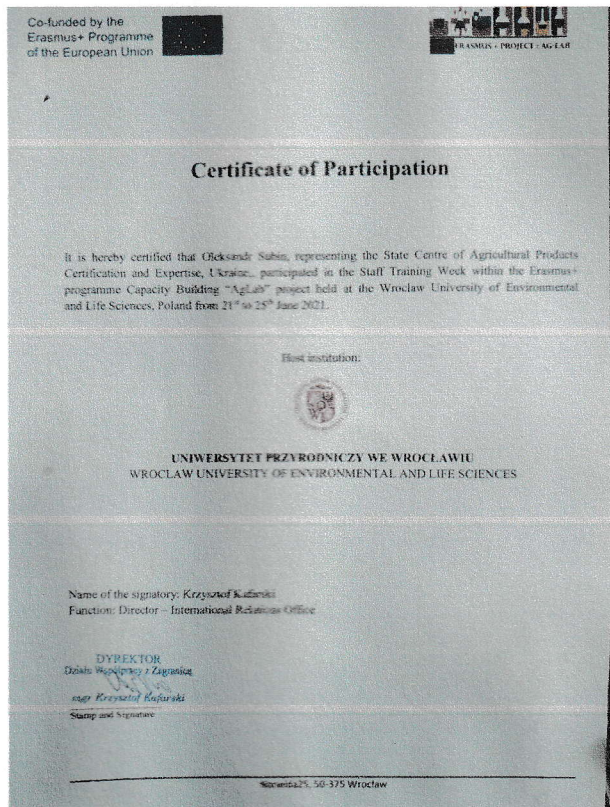
(official examinations which are used in veterinary inspection: microbiological, serological, chemical examinations of samples taken from farms, food, animals, etc; methodology of examinations, equipment, handling with samples, biosafety, procedures).

During the visit to official veterinarian laboratory in Wroclaw was presented features of examination and testing services for husbandry and poultry manufacturers; organizational structure, details of accreditation procedures, metrology, validation and verification services.



Conclusion:

- Scientific internship was organized on high level;
- Training courses was performed with using modern lab techniques and methods;
- Content and form of scientific internship was corresponded to the project objectives.



Impact:

Acquired skills and studying materials will be applied for implementation of new laboratory techniques and methods in State Centre of Agricultural Products Certification and Expertise. Using these methods will help to improve the quality agricultural and food products control. Once implemented, validated and verified, these methods will be accredited by ISO 17025.

26.06.2021 (Saturday)

Departure

Ołeksandr Subin