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

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Minute of the first training session

Chisinau, 11-12 July 2018

Wednesday, 11.07.2018

09.00 – 09.30 Welcome and registration

09.30 – 10.45 ELISA assays in food analysis, *Dario Compagnon, UniTe*

10.45 – 11.00 Coffee break

11.00 – 12.15 Homogenization and food dispersions: basic principles, concepts and techniques of emulsion science & technology, *Carla Di Mattia, UniTe*

12.15 – 12.45 Questions – answers. Discussion

12.45 – 13.45 Lunch

13.45 – 15.00 Ability to carry out sampling, packaging, fixation and transfer of biological and pathological materials samples for laboratory researches, *Malgorzata Kandefer-Gola, WUELS*

15.00 – 16.15 ICAR guidelines and recommendations, *Marija Klopčič, UL*

16.15 – 17.00 Questions – answers. Discussion

Summary of discussions

Mr. Darion Compagnon, dean of the faculty of analytical chemistry of the University of Teramo presented the ELISA method and its application to food analyses: main rules and requirements for the method's application, procedure, principle of action, interpretation of results, peculiarities of the application for food analyses. The future of the ELISA method will be based on molecular-printed polymers. (The presentation is available on the link: https://drive.google.com/drive/folders/16DE-YXeVRkXqEInqRUppWVO_qkrqXP0Z?usp=sharing)

Mrs. Carla Di Mattia, professor of the University of Teramo spoke about homogenization and food dispersion. Basing on the example of some products she presented basic principles, concepts and techniques of emulsion science & technology. The peculiarities of biopolymers: proteins, polysaccharides, emulsifiers application in foods were presented as well. (The presentation is available on the link: https://drive.google.com/drive/folders/16DE-YXeVRkXgEIngRUppWVO_qkrqXP0Z?usp=sharing)



The presentation of **Mrs. Małgorzata Kandefer-Gola**, professor from the Wrocław University of life sciences was devoted to the handling of samples of biological and pathological materials in research laboratory. She explained *the procedures and safety rules of sampling, samples packaging, fixation and transfer*. (The presentation is available on the link: https://drive.google.com/drive/folders/16DE-YXeVRkXgEIngRUppWVO_qkrqXP0Z?usp=sharing)

The presentation of **Mrs. Marija Klopčič**, professor from the University Ljubljana was destined to specialists working in animal sector as she presented the guidelines and recommendations elaborated by the International Committee for Animal Recording (ICAR). These guidelines includes several sections, e.g. : DNA technologies, recording of artificial insemination and embryos transfer, dairy cattle genomic evaluation, testing approval and checking of milk recording, milk analysis etc. (The presentation is available on the link: https://drive.google.com/drive/folders/16DE-YXeVRkXgEIngRUppWVO_qkrqXP0Z?usp=sharing)



Thursday, 12.07.2018

09.30 – 11.30 Visit of the Moldavian republic centre of veterinary diagnostic

12.00 – 13.30 Biosecurity in laboratory (laboratories of levels L2 and L3); receiving of samples and way-out of wastes, **Michel Pepin**, *VetAgroSup Lyon*

13.30 – 14.30 Lunch

14.30 – 15.30 Effects of agro-techniques on Food quality, **Nidal Shaban**, *ISLE*

15.30 – 17.00 Work in the groups on harmonization and validation of the educational master programmes (optional part): veterinary medicine, agronomy, animal husbandry and food technologies.

Summary of discussions

The project participants visited the Moldavian republic centre of veterinary diagnostic that is a member of the project consortium. The deputy-director of the Centre **Mr. Sergey Batanov** presented the activities of two parts diagnostic centre: animal health and foodstuffs safety and quality. **Mrs. Tatiana Yakimova** organized the visits of the both parts with the presentation of their equipment, analyses performed the laboratories' units.



The presentation of Mr. **Michel Pepin**, *professor of VetAgroSup Lyon* was devoted to the biosecurity in laboratory. He explained the differences between laboratories levels L2 and L3, main security rules specific for every level, requirements for buildings, equipment, staffs work clothes, means of personal protection,

treatment of samples before and after analyses, reporting etc. (The presentation is available on the link: <https://prezi.com/view/JErLyFgBdcMxGzEOoZSD>)

Mr. Nidal Shaban explained the meaning of the notions Food safety and Food quality. He presented the safety standards and safety control for horticultural products, the crucial practices when dealing with fresh fruits, vegetables in agricultural operations and food safety, the main principles of the Good agricultural practice and its importance for preventing possible risks that could impact products safety. (The presentation is available on the link: https://drive.google.com/drive/folders/16DE-YXeVRkXgEIngRUppWVO_qkrqXP0Z?usp=sharing)



The training session was ended by the work on the content of the modules being included as optional part master programmes in veterinary medicine, agronomy, animal husbandry and food technologies. The general discussion turned back to the manual as it should be closely related to the content of the proposed modules. The developed modules are attached and available on the link: https://drive.google.com/drive/folders/16DE-YXeVRkXgEIngRUppWVO_qkrqXP0Z?usp=sharing). The main conclusions of the discussion:

- The specialization “laboratory practice” will be launched since September 2018 in every university;
- Until the end of September every partner send to the coordinator the report about the number of students recruited to the specialization “laboratory practice”
- The students mobility will be launched since September 2019, the block of proposed subjects will be discussed during the next steering committee meeting in spring – summer 2019.