



Co-funded by
the European Union



Project ERASMUS K2: “Cooperation to implement innovative methods for the assessment of medicinal plants with central roles in pharmaceuticals, agriculture and nutrition“ (EURO-PLANT-ACT)

KA220-HED - Cooperation partnerships in higher education

Contract No. 2022-1-RO01-KA220-HED-000088958

REPORT - TRAINING FOR STUDENTS

Victor Babes University of Medicine and Pharmacy from Timisoara /

Faculty of Pharmacy (CO)

16.10.2023 – 27.10.2023

Between October 16-27, 2023, student training took place at the University of Medicine and Pharmacy "Victor Babes" in Timisoara, CO, Timisoara, Romania. This session was attended by 26 students from each partner university, as follows:

- Coordinator (UMFVBT) – Zbircea Elena Larisa, Hut Alexandru Romulus, Caplar Borislav Dusan, Cojocariu Andreea Codruta, Togoie Marius, Gaspar Andreea Monica (6 students)
- P1 (USVT) – Ghitulescu Andreea, Suveti Georgiana, Gherghinoiu Gabriela, Simescu Mihaela, Simescu Roxanda, Baluta Florina (6 students)
- P2 (UNIOS) – Siber Tamara, Petrovic Elena, Bubalo Ante, Herman Goran, Subaric Domagoj, Ciric Kosana (6 students)
- P3 (UNICAL) – Dioguardi Mirea, Gencarelli Milena, Gentile Diletta, Madrigrano Marta Anna, Nadile Noemi, Romeo Andrea, Scardini Angelo, Ussia Sara (8 students)

In accordance with the activities outlined in the project proposal, theoretical and practical demonstration sessions were conducted involving all participants. The focus was on innovative methods for the biological characterization of plant extracts or essential oils and the evaluation of the safety and toxicological profile of plant extracts and essential oils with a central role in health. The event agenda included both theoretical and practical sessions. The event began with student reception and



Co-funded by
the European Union



registration, a welcome address by Assoc. Prof. Iulia Pinzaru, a presentation of the host institution (the University of Medicine and Pharmacy "Victor Babes" in Timisoara), discussions about the program and organizational aspects, and a brief presentation of the EURO-PLANT-ACT project - "Cooperation to Implement Innovative Methods for the Assessment of Medicinal Plants with Central Roles in Pharmaceutics, Agriculture and Nutrition" (Assoc. Prof. Iulia Pinzaru, CO - UMFVBT).

The theoretical sessions included a series of presentations as follows: *Aspects related to the safety of the use of medicinal plants* (Assoc. Prof. Iulia Pinzaru, CO - UMFVBT), *Presentation of the practice base in the field of herbal medicinal products at UMFVBT* (Prof. Cristina Dehelean, CO - UMFVBT), *Presentation of the isolation and characterization methods of biologically active compounds of interest in tumor pathologies – part I* (Lecturer Daliana Minda, CO – UMFVBT), *Presentation of the in vitro evaluation methods of biologically active compounds of interest in tumor pathologies - part I* (Lecturer Ioana Macasoi, CO – UMFVBT), *Presentation of the in silico evaluation methods of biologically active compounds of interest in tumor pathologies* (Prof. Codruta Soica, CO – UMFVBT), *Presentation of the in vitro evaluation methods of biologically active compounds of interest in tumor pathologies - part II* (Lecturer George Draghici, CO – UMFVBT), *Presentation of the in vivo evaluation methods of biologically active compounds of interest in tumor pathologies* (Lecturer Ioana Macasoi, CO – UMFVBT), *Presentation of the research centers of the UMFVBT – part I* (Prof. Cristina Dehelean, CO - UMFVBT), *Presentation of E-lite Nutritia Company* (Adriana Vlad, E-lite Nutritia), *Presentation of the research centers of the UMFVBT – part II* (Prof. Cristina Dehelean, CO - UMFVBT), *Presentation of Favisan Company* (Virginia Faur, Favisan).

The practical sessions focused on: *Valorization of medicinal plants in the flour industry* (Prof Ersilia Alexa, P1 - USVT), Visiting the research laboratories of USVT, Practical applications regarding the use of medicinal plants in the production of floury foods, *Agrotechnical systems for cultivation, harvesting, storage, and conditioning of medicinal plants* (Prof Georgeta Pop, P1 - USVT), Visiting the experimental teaching station of USVT, Visit to the Experimental and Research Station Lovrin SA, *Physico-chemical characterization of medicinal plant products (extracts, volatile oils) - experimental demonstrations* (Lecturer Daliana Minda, CO - UMFVBT), *In vitro studies*



Co-funded by
the European Union



– *experimental demonstrations (part I)* (Lecturer Ioana Macasoi, CO – UMFVBT), *In vitro studies – experimental demonstrations (part II)* (Lecturer George Draghici, CO – UMFVBT), *In vivo studies – experimental demonstrations* (Lecturer Ioana Macasoi, CO – UMFVBT).

The students worked in teams, held group meetings, developed projects, and presented them on the topics discussed.

The student training program achieved its goal of exchanging best practices and training young specialists from complementary fields in managing the central role of medicinal plants.

Practical and educational activities were ensured with the participation of professors and specialists from each project team, guiding the participating students. The training session for young specialists (students) also emphasized the importance and development of entrepreneurship for more active participation in society and the enhancement of professional development opportunities. Following the training activities, knowledge assessment tests were developed, participation certificates were issued, and each participant completed a questionnaire to evaluate the actions and knowledge gained. The participation of associated partners (E-Lite Nutritia and Favisan) ensured better professional development through the application of modern and innovative techniques to develop community benefits (local, regional).

The direct beneficiaries of the student training program were students from each partner university, selected through a detailed procedure agreed upon by all partners prior to the training sessions. The outcome of this learning activity, student training programs, is also reflected in the deepening of knowledge among specialists in complementary fields, due to the interdisciplinary and multicultural exchange of knowledge.

The students who participated in the training programs benefited from specialized knowledge enhancement, with a focus on: interdisciplinary character (using medicinal plants with key roles in nutrition, pharmaceuticals, and agriculture), inclusion and social diversity (students from the three partner countries), sustainability (methods for processing medicinal plants in an environmentally friendly manner considering the context of globalization and climate change), and digitalization (through the adoption of teaching/learning methods based on the use of intelligent systems).



Co-funded by
the European Union





Co-funded by
the European Union





Co-funded by
the European Union

