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Project code: 2024-1-RO01-KA220-HED-000246776

*Enhancement of Agro Food Chain Byproducts through Innovative and Sustainable Methods*  
Project Acronym: eAfoBy

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## REPORT - TRAINING FOR EXPERTS

University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca

Faculty of Food Science and Technology

**31.03.2025-04.04.2025**

Between March 31 and April 4, the training entitled *Sustainable extract methods of the bioactive compounds from the agro food chain byproducts* took place at University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, Romania, COORDINATOR (CO). At the session attended 13 experts, as follows:

- Coordinator (CO): Maria Simona Chis, Adriana Paucean, Anca Farcas, Simona Man, Anamaria Pop
- P1 (UPV) – Marta Igual and Purificacion Garcia Segovia
- P2 (Universidade do Porto): Beatrice Oliveira, Anabela Costa and Helena Sousa
- P3 (Universitatea de Stiintele Vietii „Regele Mihai I” din Timisoara): Monica Negrea
- P4 (Rompan): Daniela Voica, Avram Dana.

In line with the activities detailed in the project proposal, both theoretical and practical demonstration sessions were carried out with the active participation of all involved participants. The main goal of the training was to identify the main agro-food chain byproducts generated from each country (Romania, Spain, Portugal) and to find sustainable extract methods for their further



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bioactive compound's valorisation. During the theoretical component of the initial training session, each partner highlighted their primary agro-food chain by-products, detailing the associated manufacturing processes and the chemical composition, with a focus on bioactive compounds. In the final two days, experts participated in a practical training session at the Coordinator (CO), focused on sustainable extraction methods for bioactive compounds derived from agro-food chain by-products.

On the first day, according to the agenda event, the expert's registration took place, followed by welcome speech addressed by the Vice Rector of International Relations (Prof. Marian Taulescu, USAMV Cluj), dean of the Faculty of Food Science and Technology (prof. Mudura Elena, USAMV Cluj) and project manager (Lecturer Maria Simona Chis). Presentation of host institution University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca and Food Science and Technology Faculty was carried out by Lecturer Maria Simona Chis. Discussion of the event program and organizational issues were emphasized by Oros Simona (USAMV Cluj, CO) and (Simona Chis, USAMV Cluj, CO) followed by short speech of all managers where they presented their institution, Faculty and Departments. Afterward, aspects regarding the project activity in the frame of training programs (Simona Chis, USAMV Cluj, CO) were highlighted followed by a presentation (prof. Adriana Paucean) entitled: Theoretical aspects regarding the main agro-food chain byproducts generated from the food industry in Romania; theoretical aspects regarding the Legislation at national and European level with respect to the storage of agro-food chain byproducts.

On the second day, April 1, presentations continued as follows: Theoretical aspects regarding the main agro-food chain byproducts generated from the food industry in Portugal; theoretical aspects regarding the Legislation at national and European level with respect to the storage of agro-food chain byproducts (Prof. Beatrice Oliveira -P2), followed by Prof. Purificacion Garcia Segovia (P1) with the presentation entitled Theoretical aspects regarding the main agro-food chain byproducts generated from the food industry in Spain; theoretical aspects regarding the



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Legislation at national and European level with respect to the storage of agro-food chain byproducts. Prof Helena Sousa and Dr. Marta Igual presented Theoretical aspects regarding the agro food chain by-products derived from olive oil extraction process; type of byproducts in relation with manufacturing process; the main bioactive compounds with biological activity found in olive oil by-products and Theoretical aspects regarding agro food chain By-products derived from the citrus sector; type of by-products in relation with technological and manufacturing process; the main bioactive compounds with biological activity found in citrus manufacturing process, respectively.

On the third day, Lecturer Monica Negrea (P3) presented during the practical part, sustainable extract methods of the agro food chain bioactive compounds at the milk and dairy factory Torockoi, Colțești, Alba Iulia, and in the second part of the day, Associate Prof. Simona Man presented Theoretical aspects regarding by-products derived from cereal production; type of by-products in relation with technological and manufacturing process; the main bioactive compounds with biological activity found in cereal byproducts.

In the fourth day of training, Associate Prof. Anca Farcas and Associate Prof. Man Simona presented a practical part regarding the sustainable extract methods of the agro food chain bioactive compounds in the CO Institute of Life Sciences and Practical part for sustainable extract methods of the agro food chain bioactive compounds and revalorization in bakery, pastry, confectionary factory, La Casa from Cluj-Napoca. Engineer Dana Avram (P4) highlighted a practical part of the training at the food bank in Turda.

In the last day of training, April 4, engineer Daniela Voica (P4) highlighted aspects regarding the theoretical aspects of agro food chain byproducts from the wine industry; type of by-products in relation with technological process and the main organic compounds with biological activity found in vegetable by-products, meantime, Associate Prof. Pop Anamaria (CO) presented theoretical aspects regarding agro food chain by-products derived from apple and plum juice processing; type of by-products in relation with technological and manufacturing process and the



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main bioactive compounds with biological activity found in apple and plum by-products. Theoretical aspects regarding by-products derived from beer and „țuică,, production; type of by-products in relation with technological and manufacturing process and the main bioactive compounds with biological activity found beer and plum byproducts were emphasized by Associate Prof. Anca Farcas while Lecturer Maria Simona Chis presented practical part for sustainable extract methods of the agro food chain bioactive compounds at Icar) pilot stations of bakery, pastry, gastronomy and milk and dairy products).

At the end of each theoretical session, structured working group meetings were conducted to facilitate critical analysis and interdisciplinary dialogue. These sessions culminated in the synthesis of conclusions and reflective evaluations pertaining to the thematic content covered during the respective day.

Partners such as Torockoi, Colțești, Alba Iulia and La Casa Cluj-Napoca played a pivotal role in bridging formal professional training with economic agents' requirements contributing to the reinforcement of foundational and applied knowledge, while also facilitating the advancement of innovative competencies and specialized applications within the field of food industry, byproducts valorization.

The primary beneficiaries of the expert training program were project members selected during the proposal phase, based on their expertise in food nutrition, chemical characterization of bioactive compounds, extraction methods and byproducts valorization. The outcomes of this training initiative are evidenced by the enhancement of knowledge and competencies among specialists across complementary disciplines, facilitated by the interdisciplinary and multicultural exchange of scientific insights and practices.



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