

Relevance to the objectives of the 4th Program and to the specific objectives of the direction of research

BIOMEG is an interdisciplinary applied research project according to the fundamental objective of *Programme 4: Partnerships in priority domains* due a good cooperation between different types of institutions involved: universities (North University of Baia Mare – UBM, Oradea University – UO and Transilvania University of Brasov - UTBv), research and development institutions (Agricultural Development Research Station Livada Satu Mare – SCDAL), in order to accomplish the specific objectives of the project (Table 9. Gantt Diagram). Also, following participations to different tasks of the project BIOMEG, the competitiveness of involved researchers in research and development field will be improved, this project representing an essential stage for training in future participation to national (PNCDI-2) and international (FP 7, CEEPUS, INTAS) funding competitions.

At **national level**, the **general objective** of BIOMEG project is framed in *Programme 4: Partnerships in priority domains*, research *Direction 5: Agriculture, safety and security of food*, respectively in priority theme: *5.1.17: Interdisciplinary research regarding correlations soli - plant (food) - human*. The goal of establishing the pollution level of soil, the content of heavy metals in vegetables cultivated on it and the bioaccumulations mechanisms is to presents the complex correlations between soil and plant. Medical study regarding the accumulation pathways of heavy metals in children's organism and the impact of heavy metals on children health discuss complex correlation between plant and consumers. Through its **derived objectives**, project addresses to priorities of themes: *5.1.8.: Traceability of food chain; 5.1.9. Reducing of wastes and contaminants from whole food chain*. Studying the chemical contamination of soil with heavy metals, designing of dispersion charts of pollutants and identification of vulnerable areas to pollution, the project has also connections with research direction 3 of *Programme 4 Partnerships in priority domains: Environment*, priority *3.4.6. Natural and technological Hazards: researching regarding risk assessment and impact studies*, which underlines the complexity of BIOMEG's thematic.

At **europaean level**, BIOMEG project is framed in priority *Domain: 2. Food, Agriculture and Fisheries, and Biotechnology* of FP 7

(<http://cordis.lu>), respectively to priority *Domain 6: Environment (including Climate Changes)*. Moreover, the project addresses to the objectives provided by others European research programs, such as: ERA-NET (<http://cordis.europa.eu/eralink/>), CEEPUS (<http://ceepus.scholarships>), INTAS (<http://intas.be>), which include aspects regarding regional environment, healthy and structural problems of ex-communist country during the transition period.

We can conclude that, the activities of BIOMEG project are structured around of Romanian policy connected to EU policy, regarding the quality and safety of food, protection/promoting of consumers' health/information/education of consumers.