

Dr. habil. Grosu-Tudor Silvia-Simona

Academic and scientific profile: The scientific activity is oriented in the field of microbiology and biotechnology of lactic acid bacteria, having as main research directions the isolation, characterization and valorization of functional strains from traditional fermented products. The research carried out aims both to obtain bioactive compounds (bacteriocins, exopolysaccharides, vitamins, etc.) and to develop applications in the food industry, health and modern biotechnologies.

Scientific portfolio: in over 20 years of professional experience, the scientific activity is reflected through a consistent and relevant path, evidenced by 35 published scientific papers, over 60 participations in scientific events, approximately 600 citations in the Web of Science, a Hirsch index of 13 (WoS and Scopus), national and international collaborations and involvement in UEFISCDI and Horizon Europe research projects.

ORCID: 0000-0001-8209-4992

Research directions:

- Biodiversity and biotechnological exploitation of lactic acid bacteria from traditional fermentations
- Bioactive compounds synthesized by lactic acid bacteria: structure, functions and applications
- Functional lactic acid bacteria for the development of probiotic and sustainable foods
- Stress adaptation mechanisms of lactic acid bacteria and their biotechnological implications
- Food biotechnologies based on microbial fermentations and functional metabolites
- Bionanotechnological applications of metabolites produced by lactic acid bacteria

Thematic areas: microbiology, general biology, food biotechnologies.

Date de contact: silvia.grosu@ibiol.ro