Dr Bojana Banović Đeri works as Research Associate at the Institute of Molecular Genetics and Genetic Engineering, University of Belgrade. Upon acquiring PhD in plant sciences she pursued specialization in bioinformatics (accomplished 9 international training courses in bioinformatics and currently enrolled in the programme 'Bioinformatics for biologists', Faculty of Computer Science, Belgrade). Her scientific interests primarily includes plants response to stress and food safety. Author of 16 research papers in international scientific journals that have been cited more than 115 times with h-index 6 (Google Scholar) and lecturer at Molecular Biology module for PhD students, Faculty of Biology, University of Belgrade. She participated in the US expert exchange programme „Open World" for food safety and security. Coordinator of two projects and participant in 14 porojects (national and international). Mentor of one PhD thesis and three master thesis. Active as a member of several scientific societies, reviewer of international scientific papers and projects, organizer of several conferences and workshops. Engaged in undergraduate students science projects, workshops and competitions and science promotion (Researchers Night, Plant Fascination Day).

Workshop: „Bioinformatics in nutrition: modern approaches in analysis of nutrigenomics, metagenomics and plant genomics"

This session will cover both theoretical and practical basis of bioinformatics approaches in nutrition research through nutrigenomics, metagenomics and plant genomics aspects. Bioinformatic analysis of human nutrigenomic variation provides an important framework for discovering disease markers or markers of phenotypic alterations that could improve implementation of precise medicine and precise prevention. Metagenomics approaches have wide-range application in personalized nutrition, functional food development and food safety. Plant genomics researches related to nutrition are mostly directed to optimizing utilization of available plant food, improving plant quality and creating novel plant-based food. Bioinformatics tools are widely used in the nutrition science such as in the detection of toxins, pathogens and food allergens, relation between diet and intestinal microbiota and improvement in plant breeding, food safety and security and designing novel food. Together we will learn about NGS technology advantages, big data formats in biology and useful databases for nutrigenomics, metagenomics and plant genomics studies.