



Dusan Radojevic is Research Assistant in the group for host-microbiota interactions at Laboratory for Molecular Microbiology, University of Belgrade - Institute of Molecular Genetics and Genetic Engineering. His PhD thesis is about relation between gut-microbiota composition and immunomodulatory properties and potential for immunotherapy of dendritic cells and myeloid derived suppressor cells. He acquired strong skills in metagenomic data processing, statistical analysis and data visualization from different NGS workshops. Dusan was member of semi-final team (SensORing) at the Competition for the Best Technological Innovation of 2017, President of Students' Scientific Research Center of the Faculty of Biology 2015-2017, and member of the organization committees of three congresses. Also, he is a member of the Serbian Society for Bioinformatics and Computational Biology, Serbian Society for Molecular Biology and Serbian Society for Microbiology.

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.