



Dr Biljana Stankovic is Research Associate Professor in the Laboratory for Molecular Biomedicine at the Institute of Molecular Genetics and Genetic Engineering, University of Belgrade. Areas of her scientific interest include molecular biology of human diseases, biostatistics and bioinformatics. From the start of her research career she has been investigating molecular mechanisms of inflammatory bowel disease development. Currently, she explores pharmacogenomic and pharmacotranscriptomic markers of drug response in inflammatory bowel disease patients. SARS-CoV-2 pandemic directed her research interest towards genetics and nutrigenetics predisposing to severe clinical presentation of COVID-19. Until now, she published 31 full papers in peer reviewed journals and wrote chapter in a book. Her work has been cited (according to Scopus) 238 times and h-index is 10.

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.