



Dr Nikola Kotur is an associate research professor at the Institute of Molecular Genetics and Genetic Engineering, University of Belgrade. Nikola co-authored 28 research and review papers mostly in the field of pharmacogenomics and personalized medicine of childhood acute lymphoblastic leukemia, inflammatory bowel disease and COVID-19. His research papers were cited 286 times with the H index of 11. Nikola participated one national, one bilateral project and he has been active in science popularization mostly through EU funded Researchers' Night projects. He is currently leading a project related to nutrition, nutrigenetics and biochemical markers of vitamin D, zinc and selenium status in COVID-19 patients. Nikola is also interested in statistics and bioinformatics, which prompted him to join CA18240 COST action as a participant of a work group dedicated to bioinformatics and data mining.

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.