„Plant productivity and food safety:
Soil science, Microbiology, Agricultural Genetics and Food quality”
15-17.09.2021 r.

Second day (16th of September 2021)

Session V: Different approaches to enhance food security and food safety

Session Chair: PhD Grażyna B. Dąbrowska, Assoc. Prof. at NCU

In the face of a growing world population food security and food safety are one of the most important global challenges nowadays. These complex socio-economical issues are defined as the availability of sufficient quantities of safe and nutritious food for everybody, produces in sustainable way. Food security and safety are inextricably linked with the quality of food products, they include all aspects of plant- and animal-based food production, storage, and utilisation. Changing climate, growing world population, and environmental stress factors are only few existing and future threads for food security and food safety. Fighting against food insecurity should be multidimensional and diversified approaches to the problems will be present during this session.

Research subjects includes:

- current and future challenges to achieving food security and food safety,
- molecular mechanisms underneath crop yields and animal productivity,
- biofortification of crop plants as a tool for fighting against microelements deficiency,
- genetically modified organisms in the context of food security,
- food safety in the context of storage in polymer packages.