

FOOD SAFETY ISSUES RELATED TO THE PRESENCE OF MICRO AND NANOPLASTICS IN FOOD

**Mihaela Geicu-Cristea, Elisabeta Elena Popa, Paul Alexandru Popescu, Amalia Carmen
Miteluț, Mihaela Cristina Drăghici, Mona Elena Popa**

University of Agronomic Sciences and Veterinary Medicine Bucharest,
59 Mărăști Blv, sector , 011464, Bucharest, Romania

elena.eli.tanase@gmail.com

ABSTRACT

The presence of micro and nanoplastics in the environment has been the subject of numerous scientific articles, focusing in particular on the impact on marine and terrestrial environment. Recently, this topic has started to be treated in terms of food safety and human health, leading to the development of branches of science such as nanotoxicology, which has approached in vitro and in vivo studies to elucidate the impact of such particles.

The aim of this study is to reveal the food safety issues that derived from the presence of microplastics and nanoplastics in both marine and terrestrial ecosystems, which, due to their size, have the ability to enter into the food chain. Therefore it is necessary to pay special attention, especially from the specialists in the field of food safety in order to limit as much as possible the presence of these particles along the food chain.

Key words: microplastics, nanoplastics, food safety hazards, human health risks