

Nano Plastics in Aquatic Ecosystems: Consequences for Human Health [†]

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[†] Presented at 3rd National Conference on Environmental Toxicology: Impact on Human Health (Env-Tox 2024)

Received: 16.02.2024; Accepted: 20.03.2024; Published: 28.03.2024

Abstract: A comprehensive inquiry into the complex influence of nanoplastics through the complex food chains has created anxieties as a result. The discussion has largely been dominated by the environmental impacts of large-scale plastics, but the unique characteristics of nanoplastics offer a novel perspective on it. This review aims to better understand interactions between nanoplastics in aquatic ecosystems, particularly as they go through different trophic levels. To bridge existing gaps in knowledge, we carefully analyze the bioaccumulation and bioavailability of these particles so that our findings can shed light on potential risks they pose to human health. In terms of understanding environmental sciences, this research contributes to that field by explaining how nanoplastics climb up the food chain. Moreover, it shows how important it is to deal with new ecological challenges to protect public health. It also provides information that forms groundwork on which well-informed policies could be made to mitigate against pervasive effects caused by nanoparticles on water bodies and man.

Keywords: nanoplastics; aquatic; ecosystem.

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Funding

None.

Acknowledgments

None.

Conflicts of Interest

The authors declare no conflict of interest.