Human Health Implications of Environmental Nanoparticles

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- Patrick Omoregie Isibor,
- Samuel Adeniyi Oyegbade,
- Jerry Gbotemi Oni,
- Wopa Wurie Ahmed,
- Eniola Opeyemi Abiodun,
- Aishat Rabiu Sani &

- Oluwafemi Adebayo Oyewole

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Abstract

The scientific world is beginning to give deeper cursory attention to nanoparticles because of their significant influence on the health of humans, especially in recent times. This chapter reports the nanoparticle interaction within the environment and also navigates the pathways through which humans get exposed. It strongly expresses the significant potential and influence of nanoparticles on human health. Further thought and basic multidisciplinary research work involving materials scientists, medical professionals, toxicologists, and environmental engineers are required to address the hazardous health effects and safety concerns of NPs. Chemical toxicity was taken into consideration throughout the invention and standardization of almost all toxicity assessment techniques. However, NPs have a number of distinctive physicochemical characteristics that may interfere with or present difficulties for conventional toxicity studies. In conclusion, unless the ambiguities surrounding destiny, transport, and toxicity are resolved, uses of NPs that include their direct introduction to the environment look to be problematic. Key findings generated from this chapter will be instrumental for further research or inquiry into issues linked with nanoparticles and their impact on human health within the context of the natural environment.

Change history

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Author information

Authors and Affiliations

1. **Department of Biological Sciences, College of Science and Technology, Covenant University, Ota, Nigeria**
   Patrick Omoregie Isibor & Samuel Adeniyi Oyegbade
2. **Department of Biochemistry, Federal University of Technology, Minna, Nigeria**
   Jerry Gbotemi Oni & Wopa Wurie Ahmed
3. **Department of Microbiology, University of Ibadan, Oyo, Nigeria**
   Eniola Opeyemi Abiodun
4. **Department of Microbiology, Ibrahim Badamasi Babangida University, Lapai, Niger State, Nigeria**
   Aishat Rabiu Sani
5. **Department of Microbiology, Federal University of Technology, Gidan Kwano Campus, Minna, Nigeria**
   Oluwafemi Adebayo Oyewole

Corresponding author

Correspondence to Patrick Omoregie Isibor .

Editor information

Editors and Affiliations

1. **Biological Sciences, Covenant University, Ota, Nigeria**
   Patrick Omoregie Isibor
2. **Mechanical and Industrial Engineering, National University of Science and Technology, Sultanate of Oman, Oman**

Geetha Devi
3. **Environmental Management and Toxicology, University of Benin, Benin City, Nigeria**
Alex Ajeh Enuneku

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