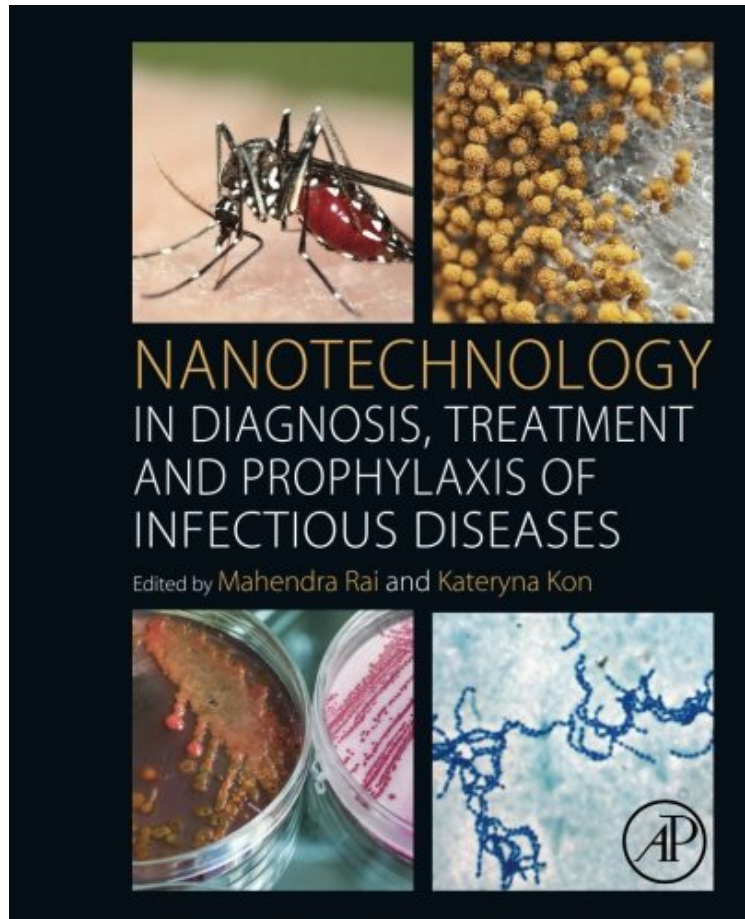



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Nanotechnology in Diagnosis, Treatment and Prophylaxis of Infectious Diseases delivers comprehensive coverage of the application of nanotechnology to pressing problems in infectious disease. This text equips readers with cutting-edge knowledge of promising developments and future prospects in nanotechnology, paying special attention to microbes that are now resistant to conventional antibiotics, a concerning problem in modern medicine. Readers will find a thorough discussion of this new approach to infectious disease treatment, including the reasons nanotechnology presents a promising avenue for the diagnosis, treatment, and prophylaxis of infectious diseases. Provides a

comprehensive overview of the use of nanotechnology in the treatment and diagnosis of infectious diseases Covers all common types of infective agents, including bacteria, viruses, fungi, and protozoa, along with their vectors, ticks, mosquitoes, flies, etc. Delivers commentary from an international researcher base, providing insights across differing economic statuses Includes a foundation of basic nanotechnological concepts to aid in designing new strategies to combat several pathogenic diseases and cancer Illustrates the high antimicrobial potential of nanoparticles, ultimately demonstrating how they are a promising alternative class that can be successfully used in fighting a myriad of infections

About the Author Dr Mahendra Rai: Professor and Head of the Department of Biotechnology at Amravati University in Maharashtra, India. He has published 210 research papers, more than 100 popular articles in Indian and foreign journals and 30 books from reputed publishers like Elsevier, Springer, CRC, Taylor and Francis and Scientific Publisher. He is a member of several scientific societies and has been a national Scholar for five years. He has received several prestigious awards, including the father T.A. Mathias award (1989) from the All India Association for Christian Higher Education, and the Medini award (1999) from the Department of Environment and Forest, Government of India. He also received SERC visiting fellowship by Department of Science and Technology (1996), INSA visiting fellowship by Indian National Science Academy (1998) and TWAS-UNESCO Associateship (2002), Italy. Dr. Rai serves as a referee for 20 international journals and is a member of editorial board of ten national and international journals. He has approximately three decades of teaching and research experience. The main focus of his research is plant and nanobased bioactives against human pathogenic microbes. Dr. Kateryna Kon, MD, PhD, currently works at the Department of Microbiology, Virology and Immunology at Kharkiv National Medical University, Kharkiv, Ukraine as an Associate Professor. Dr. Kon received the Best Young Scientist of Kharkiv Award in 2007. She has ten years of teaching and fifteen years of research experience. She is an editorial board member of six international peer-reviewed journals. Dr. Kon's scientific contributions include more than 100 publications, 6 books and 18 scientific articles. The main focus of Dr. Kon's research is antibiotic resistance in bacteria, coping with microbial resistance by plant essential oils and nanoparticles, microbiology of surgical and gynaecological infections, application of different statistical methods to analysis of biomedical data.