



# Nanotechnology in Endodontics: Current and Potential Clinical Applications

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## **Nanotechnology in Endodontics: Current and Potential Clinical Applications** From Springer

This book provides detailed information on the emerging applications of nanomaterials and nanoparticles within endodontics, highlighting the exciting potential clinical impact of nanotechnology in the field. The range of applications covered is diverse, encompassing drug and gene delivery, tissue engineering, antibacterial strategies, dentin tissue stabilization, dentin pulp regeneration and use in restorative and endodontic materials. Important scientific background information relating to each application is provided, with clear coverage of basic principles. In addition, potential pitfalls are identified and explained. The cytotoxicity of nanomaterials and nanoparticles is also addressed in a separate chapter. The book will be of value both for endodontic practitioners and for all scientists and graduate students who are interested in the application of nanotechnology in endodontics.

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### **About the Author**

Anil Kishen is Associate Professor (Tenured) and Head of the Discipline of Endodontics at the Faculty of Dentistry, University of Toronto, Ontario, Canada. Dr. Kishen was awarded his Bachelor of Dental Surgery by the University of Madras, India, in 1992, and his Master of Dental Surgery in Endodontics and Operative Dentistry by Tamilnadu Medical University, Madras, in 1996. After gaining a PhD in Biomedical Engineering from Nanyang Technological University, Singapore, he became an Assistant Professor in the Department of Restorative Dentistry at the National University of Singapore before moving to the University of Toronto in 2009. Dr. Kishen is a member of the Research and Scientific Affairs Committee of the American Association of Endodontists. He is a member of the editorial boards of various journals and an Associate Editor of the Journal of Endodontics, BMC Microbiology and Endodontic Topics and a Section Editor of the Singapore Dental Journal. He has been principal investigator on a number of research projects and holds several patents. Dr. Kishen is the author of more than 70 publications in international journals, the co-author of the Springer book Root Canal Biofilms and co-editor of Fundamentals and Applications of Biophotonics in Dentistry (The Imperial College Press).

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