



Handbook of Clinical Nanomedicine: Nanoparticles, Imaging, Therapy, and Clinical Applications (Pan Stanford Series on Nanomedicine) (Volume 2)

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This handbook (55 chapters) provides a comprehensive roadmap of basic research in nanomedicine as well as clinical applications. However, unlike other texts in nanomedicine, it not only highlights current advances in diagnostics and therapeutics but also explores related issues like nomenclature, historical developments, regulatory aspects, nanosimilars and 3D nanofabrication. While bridging the gap between basic biomedical research, engineering, medicine and law, the handbook provides a thorough understanding of nano's potential to address (i) medical problems from both the patient and health provider's perspective, and (ii) current applications and their potential in a healthcare setting.

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Editorial Review

Review

"Dr. Bawa and his team have meticulously gathered the distilled experience of world-class researchers, clinicians and business leaders addressing the most salient issues confronted in product concept development and translation. Knowledge is power, particularly in nanomedicine translation, and this handbook is an essential guide that illustrates and clarifies our way to commercial success."

?Gregory Lanza, MD, PhD, Professor of Medicine and Oliver M. Langenberg Distinguished Professor, Washington University Medical School, USA

"This is an outstanding, comprehensive volume that crosscuts disciplines and topics fitting individuals from a variety of fields looking to become knowledgeable in medical nanotech research and its translation from the bench to the bedside."

?Shaker A. Mousa, PhD, MBA, Vice Provost and Professor of Pharmacology, Albany College of Pharmacy and Health Sciences, USA

"Masterful! This handbook will have a welcome place in the hands of students, educators, clinicians and experienced scientists alike. In a rapidly evolving arena, the authors have harnessed the field and its future by highlighting both current and future needs in diagnosis and therapies. Bravo!"

?Howard E. Gendelman, MD, Margaret R. Larson Professor and Chair, University of Nebraska Medical Center, USA

"It is refreshing to see a handbook that does not merely focus on preclinical aspects or exaggerated projections of nanomedicine. Unlike other books, this handbook not only highlights current advances in diagnostics and therapies but also addresses critical issues like terminology, regulatory aspects and personalized medicine."

?Gert Storm, PhD, Professor of Pharmaceutics, Utrecht University, The Netherlands

About the Author

Raj Bawa, MS, PhD, is president of Bawa Biotech LLC, a biotech/pharma consultancy and patent law firm based in Ashburn, Virginia that he founded in 2002. He is an inventor, entrepreneur, professor and registered patent agent licensed to practice before the US Patent & Trademark Office. Trained as a biochemist and microbiologist, he has been an active researcher for over two decades. He has extensive expertise in the pharmaceutical sciences, biotechnology, nanomedicine, drug delivery, biodefense, FDA regulatory issues, and patent law. Since 1999, he has held various adjunct faculty positions at Rensselaer Polytechnic Institute in Troy, NY, where he is currently an adjunct professor of biological sciences and where he received his doctoral degree in three years (biophysics/biochemistry). Since 2004, he has been an adjunct professor of natural and applied sciences at NVCC in Annandale, VA. He is a scientific advisor to Teva Pharmaceutical Industries, Ltd., Israel. He has served as a principal investigator of National Cancer Institute SBIRs and reviewer for both the National Institutes of Health and the National Science Foundation. In the 1990s, Dr. Bawa held various positions at the US Patent & Trademark Office, including primary examiner for 6 years.

He is a life member of Sigma Xi, co-chair of the Nanotech Committee of the American Bar Association and serves on the Global Advisory Council of the World Future Society. He has authored over 100 publications, co-edited four texts and serves on the editorial boards of numerous peer-reviewed journals, including serving as a special associate editor of *Nanomedicine* (Elsevier) and an editor-in-chief of the *Journal of Interdisciplinary Nanomedicine* (Wiley). Some of Dr. Bawa's awards include the Innovations Prize from the Institution of Mechanical Engineers, London, UK (2008), the Key Award from Rensselaer's Office of Alumni Relations (2005) and the Lifetime Achievement Award from the American Society for Nanomedicine (2014).

Gerald F. Audette, PhD, has been a faculty member at York University in Toronto, Canada, since 2006. Currently, he is an associate professor in the Department of Chemistry and acting director of the Centre for Research on Biomolecular Interactions at York University. He received his doctorate in 2002 from the Department of Biochemistry at the University of Saskatchewan in Saskatoon, Canada. Working with Drs. Louis T. J. Delbaere and J. Wilson Quail (1995–2001), Dr. Audette's research focused on the elucidation of the protein–carbohydrate interactions that occur during blood-group recognition (in particular during the recognition of O blood type) using high-resolution X-ray crystallography. Dr. Audette conducted his postdoctoral research at the University of Alberta (2001–2006) in Edmonton, Canada. Working with Drs. Bart Hazes and Laura Frost; his research again utilized high-resolution protein crystallography to examine the correlation between protein structure and biological activity of type IV pilins that are assembled into pili used by bacteria for multiple purposes, including cellular adhesion during infection. It was during these studies that Dr. Audette identified the generation of protein nanotubes from engineered pilin monomers. Dr. Audette also studied the process of bacterial conjugation (or lateral gene transfer) using the F-plasmid conjugative system of *Escherichia coli*. Current research directions include: structure/function studies of proteins involved in bacterial conjugation systems, the structural and functional characterization of several type IV pilins (the monomeric subunit of the pilus), their assembly systems, and adapting these unique protein systems for applications in bionanotechnology. Dr. Audette has previously served as co-editor-in-chief of the *Journal of Bionanoscience* (2007–2010), and is currently a subject editor of structural chemistry and crystallography for the journal *FACETS*.

Israel Rubinstein, MD, is professor of medicine at the College of Medicine, University of Illinois at Chicago, USA. He is member of the section of pulmonary, critical care, allergy and sleep medicine in the Department of Medicine, University of Illinois at Chicago. He is an attending physician at the University of Illinois Hospital and Health Sciences System and Jesse Brown VA Medical Center in Chicago. Dr. Rubinstein is also the associate chief of staff for research and development at the Jesse Brown Veterans Administration Medical Center. Prior to his appointment at the University of Illinois at Chicago, he was associate professor of medicine at the University of Nebraska Medical Center in Omaha, Nebraska, USA. Dr. Rubinstein received his medical degree from the Hebrew University-Hadassah School of Medicine in Jerusalem, Israel. He was a medical resident in Israel, fellow in respirology at the University of Toronto and a research fellow at the Cardiovascular Research Institute, University of California at San Francisco. Dr. Rubinstein holds 18 issued and pending patents and has authored close to 200 peer-reviewed papers in scientific journals. Dr. Rubinstein's funded research endeavors center around nanomedicine and targeted drug delivery with specific focus on lipid-based products and repurposing. Currently, he serves as editor-in-chief of *Nanotechnology, Science and Applications*, associate editor of the *International Journal of Nanomedicine*, and editorial board member of several scientific journals. Dr. Rubinstein is member of the scientific advisory board of the International Academy of Cardiology. He is a fellow of the American Heart Association as well as the American College of Physicians and the American College of Chest Physicians. In addition, he is a member

of the American Thoracic Society, American Physiological Society, American Society for Pharmacology and Experimental Therapeutics, and American Microbiology Society. Dr. Rubinstein is a board member and director of Advanced Life Sciences, a publicly traded biopharmaceutical company based in Woodridge, Illinois, USA. He is a co-founder of ResQ Pharma, an emerging clinical stage pharmaceutical company focusing on repurposing FDA-approved drugs for cardiopulmonary resuscitation and drug overdoses.

Users Review

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Heidi Montgomery:

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