



materials



Special Issue Reprint

Functionalized Nanomaterials and Structures for Biomedical Applications

www.mdpi.com/books/reprint/9646

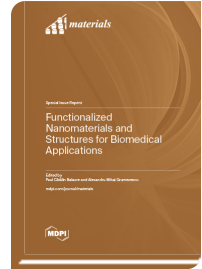
Edited by

Paul Cătălin Balaure

Alexandru Mihai Grumezescu

ISBN 978-3-7258-1800-6 (Hardback)

ISBN 978-3-7258-1799-3 (PDF)



This Special Issue on biomedical applications of functionalized nanomaterials includes nine research papers and two reviews. G. Tejada and D. Leonardi developed a buccal film using natural polymers for delivering miconazole nitrate (MN) and lidocaine hydrochloride (LDCH) to treat oropharyngeal candidiasis. B. Mubaiwa, E. M. Antunes, and D. R. Beukes enhanced cytotoxic metabolite delivery using green-synthesized gold nanoparticles, showing significant activity against breast cancer cells. Other papers cover various particulate systems for biopharmaceutical applications. V. Mikelashvili and L. Almsy characterized citric acid-capped magnetite nanoparticles. R. Rajamoham, S.-K. Kim, and Y.R. Lee synthesized copper oxide nanoparticles with antibiofilm properties. M. Valentin and B. Vertruyen prepared macroporous mannitol granules for pulmonary drug delivery. S.K. Nagaraja and S. Nayaka biosynthesized silver nanoparticles with antimicrobial properties. Dhatwalia produced ZnO nanoparticles with various biological activities. M.M. Eshaghi and A. Rahdar developed pH-responsive hydrogels for quercetin delivery. Al-Thani reduced tyrosinase inhibitors' cardiotoxicity with PLGA-PEG-PLGA nanoparticles. The reviews by A.M. Diez-Pascual and H. Ashraf discuss advances in nanostructures for medical applications and selenium nanoparticles for microbiota and neurological diseases.



Order Your Print Copy

You can order print copies at

www.mdpi.com/books/reprint/9646

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.