Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications XXI

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Nanobiophotonics And Biomedical Applications Proceedings Of Spie

Thomas J. Webster

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Arregui, Michele Giordano, Antonello Cutolo, 2016-04-19 This book provides an overview of the state of the art in optical and chemical nanosensors for industrial environmental diagnostic security and medical applications. It summarizes the various types and developments in optical and chemical sensor technology and then explains how the integration of optical chemical sensors and nanomaterials creates new opportunities. The text also reviews optochemical sensors starting from the basics in optoelectronics and concluding with the principles of operation at the basis of optochemical devices. The authors offer insight into future trends in this growing field and present a range of applications in the fields of medicine security and bioterrorism.

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Genina, 2022-02-08 Biomedical photonics is currently one of the fastest growing fields connecting research in physics optics and electrical engineering coupled with medical and biological applications It allows for the structural and functional analysis of tissues and cells with resolution and contrast unattainable by any other methods However the major challenges of many biophotonics techniques are associated with the need to enhance imaging resolution even further to the sub cellular level as well as translate them for in vivo studies The tissue optical clearing method uses immersion of tissues into optical clearing agents OCAs that reduces the scattering of tissue and makes tissue more transparent and this method has been successfully used ever since This book is a self contained introduction to tissue optical clearing including the basic principles and in vitro biological applications from in vitro to in vivo tissue optical clearing methods and combination of tissue optical clearing and various optical imaging for diagnosis The chapters cover a wide range of issues related to the field of tissue optical clearing mechanisms of tissue optical clearing in vitro and in vivo traditional and innovative optical clearing agents recent achievements in optical clearing of different tissues including pathological tissues and blood for optical imaging diagnosis and therapy This book provides a comprehensive account of the latest research and possibilities of utilising optical clearing as an instrument for improving the diagnostic effectiveness of modern optical diagnostic methods. The book is addressed to biophysicist researchers graduate students and postdocs of biomedical specialties as well as biomedical engineers and physicians interested in the development and application of optical methods in medicine Key features The first collective reference to collate all known knowledge on this topic Edited by experts in the field with chapter contributions from subject area specialists Brings together the two main approaches in immersion optical clearing into one cohesive book **Frontiers** in Biophotonics for Translational Medicine Malini Olivo, U. S. Dinish, 2015-07-03 The present book provides recent developments in various in vivo imaging and sensing techniques such as photo acoustics PA imaging and microscopy ultrasound PA combined modalities optical coherence tomography OCT and micro OCT Raman and surface enhanced Raman scattering SERS Fluorescence lifetime imaging FLI techniques and nanoparticle enabled endoscopy etc There is also a contributing chapter from leading medical instrumentation company on their view of optical imaging techniques in clinical laparoscopic surgery The UN proclaimed 2015 as the International Year of Light and Light based Technologies emphasizing achievements in the optical sciences and their importance to human beings In this context this book focusses on the recent advances in biophotonics techniques primarily focused towards translational medicine contributed by thought leaders who have made cutting edge developments in various photonics techniques Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications XII Dan V. Nicolau, 2015-03 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature Nanoscale Imaging, Sensing, and Actuation for Biomedical Applications XIV

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