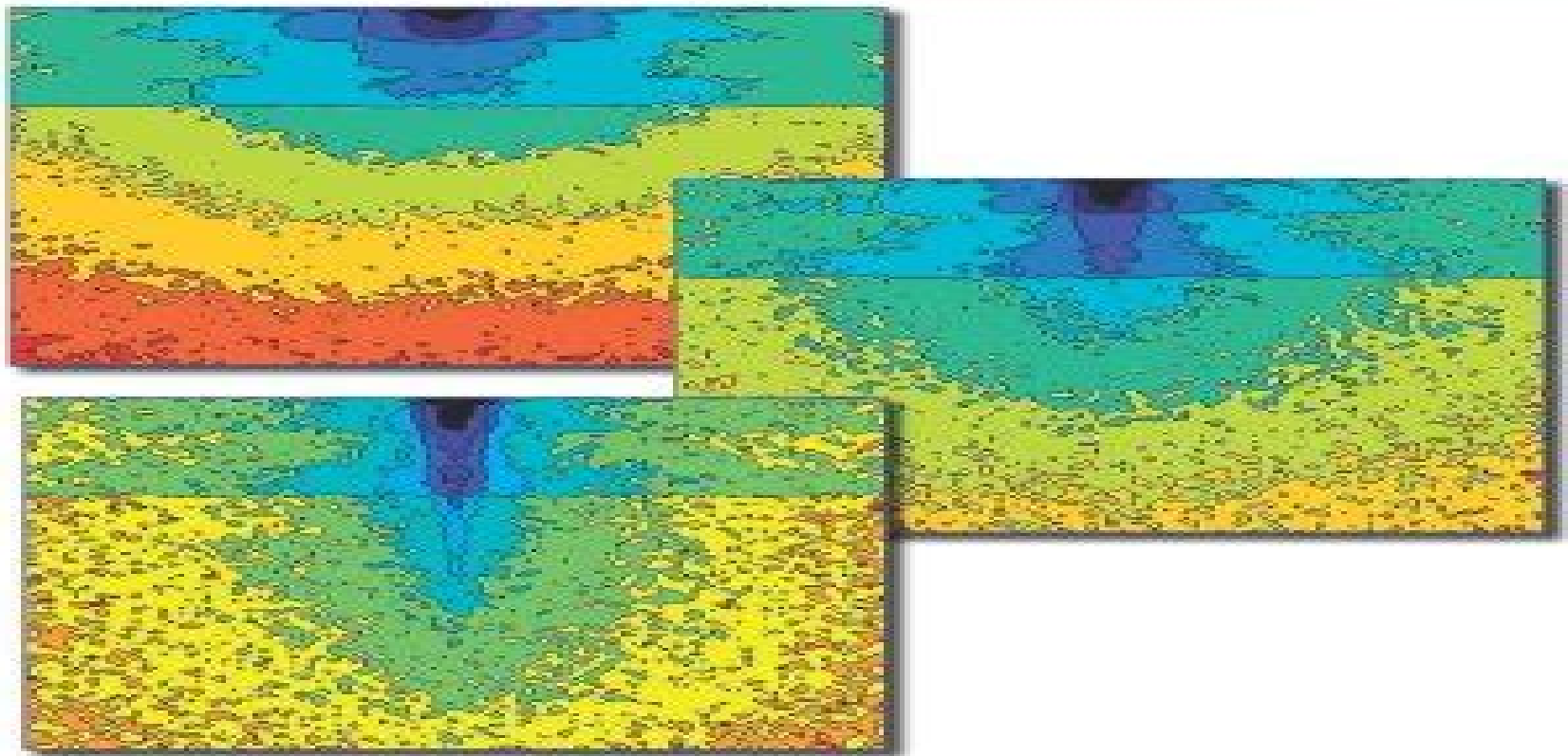


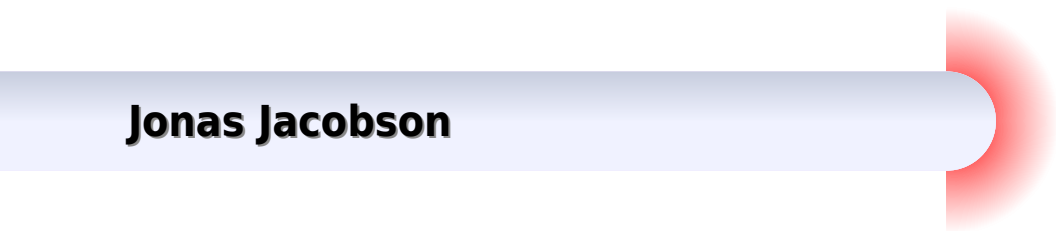
Optical Clearing of Tissues and Blood



Valery V. Tuchin

Optical Clearing Of Tissues And Blood Spie Press Monograph Vol Pm154

Jonas Jacobson



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Optical Technologies in Biophysics and Medicine, 2006 *Multiphoton Microscopy in the Biomedical Sciences*, 2006

Optical Clearing of Tissues and Blood Valeriï Viktorovich Tuchin, 2006 This book describes an optical clearing method based on reversible reduction of tissue scattering due to refractive index matching of scatterers and ground matter This technique which has been of great interest for research and application in the last decade is a promising technique for future developments in the fields of tissue imaging spectroscopy phototherapy and laser surgery **Handbook of Tissue Optical Clearing** Valery V. Tuchin, Dan Zhu, Elina A. 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 Optical Clearing of Tissues and Blood Gilberto Genova, 2017-06-28 optical clearing method based on reversible reduction of tissue scattering due to refractive index matching of scatterers and ground matter This technique which has been of great interest for research and application in the last decade is a promising technique for future developments in the fields of tissue imaging spectroscopy phototherapy and laser surgery *Optical Clearing of Tissues and Blood* Jonas Jacobson, 2017-01-17 Jonas describes an optical clearing method based on reversible reduction of tissue scattering due to refractive index matching of scatterers and ground matter This technique which has been of great interest for research and application in the last decade is a promising technique for future developments in the

fields of tissue imaging spectroscopy phototherapy and laser surgery

The Optical Clearing Method Luís Manuel Couto Oliveira, Valery Victorovich Tuchin, 2019-11-27 This book describes the Optical Immersion Clearing method and its application to acquire information with importance for clinical practice and various fields of biomedical engineering The method has proved to be a reliable means of increasing tissue transparency allowing the investigator or surgeon to reach deeper tissue layers for improved imaging and laser surgery This result is obtained by partial replacement of tissue water with an active optical clearing agent OCA that has a higher refractive index and is a better match for the refractive index of other tissue components Natural tissue scattering is thereby reduced An exponential increase in research using this method has occurred in recent years and new applications have emerged both in clinical practice and in some areas of biomedical engineering Recent research has revealed that treating ex vivo tissues with solutions containing active OCAs in different concentrations produces experimental data to characterize drug delivery or to discriminate between normal and pathological tissues The obtained drug diffusion properties are of interest for the pharmaceutical and organ preservation industry Similar data can be estimated with particular interest for food preservation The free water content evaluation is also of great interest since it facilitates the characterization of tissues to discriminate pathologies An interesting new application that is presented in the book regards the creation of two optical windows in the ultraviolet spectral range through the application of the immersion method These induced transparency windows open the possibility to diagnose and treat pathologies with ultraviolet light This book presents photographs from the tissues we have studied and figures that represent the experimental setups used Graphs and tables are also included to show the numerical results obtained in the sequential calculations performed

Handbook of Optical Biomedical Diagnostics Valerii Viktorovich Tuchin, 2016 This text begins by describing the basic principles and diagnostic applications of optical techniques based on detecting and processing the scattering fluorescence FT IR and Raman spectroscopic signals from various tissues with an emphasis on blood epithelial tissues and human skin The second half of the volume discusses specific imaging technologies such as Doppler laser speckle optical coherence tomography OCT and fluorescence and photoacoustic imaging

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Light-tissue Interaction, 2016

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