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Altri autori (Persone)	LuoQingming WangLihong V TuchinV. V (Valerii Viktorovich)
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Nota di contenuto	Preface; Organizing Committee; CONTENTS; Invited Papers; Shedding Light on Life: Optical Assessment of Mitochondrial Function and Tissue Vitality in Biology and Medicine M. Avraham; 1. Introduction; 1.1. Energy Metabolism and Brain Functions; 1.2. Spreading Depression and Spreading Depression-like Depolarization; 1.3. Body Homeostatic Compensatory Mechanisms; 1.4. Pathophysiology of Critically III Patients; 1.5. Monitoring of Critically III Patients in Medical Practice; References; Interstitial Photodynamic Therapy (PDT) of Solid Tumor Z. Huang, Y. K. Chen, H. Hu and F. W. Hetzel 1. Introduction2. Photosensitizer; 3. Light Source and Light Delivery; 4. Tissue Oxygenation; 5. Biological Targets; 5.1. Direct Cytotoxicity; 5.2. Vascular Effect; 5.3. Immune Responses; 6. PDT Dosimetry; 7. Future Prospects; Acknowledgments; References; Optical Imaging and Spectroscopy of Superficial Tissue S. P. Morgan, I. M. Stockford, J. A. Crowe and B. R. Hayes-Gill; 1. Introduction; 2. Polarization Sensitive Capillaroscopy; 2.1. Method; 2.2. Results; 3. Hyperspectral Imaging; 3.1. Method; 3.2. Results; 4. Full Field Laser Doppler Flowmetry; 4.1. Method; 4.2. Results; 5. Conclusions AcknowledgmentsReferences; Photoacoustic and Thermoacoustic Imaging for Biomedical Applications D. Xing; 1. Introduction; 2. Materials and Methods; 2.1 Photoacoustic Imaging System; 2.2 Thermoacoustic Imaging System; 3. Results; 4. Conclusions; Acknowledgments; References; Measuring Tissue Optical Properties In Vivo Using Reflectance-Mode Confocal Microscopy and OCT S. L. Jacques, R. Samatham, D. S. Gareau, D. Levitz and N. Choudhury; 1. Introduction; 2. Experimental; 3. Conclusion; The Enhancement of Confocal Probing with Optical Clearing I. V. Meglinski and V. V. Tuchin; 1. Introduction 2. Materials and Methods3. Results and Discussion; 4. Summary and Conclusions; Acknowledgements; References; Topic I - Tissue Optics and Diffuse Optical Imaging; Refractive Index of Hemoglobin and Albumin Solutions Incubated with Glucose O. S. Zhernovaya and V. V. Tuchin; 1. Introduction; 2. Materials and Methods; 3. Results and Discussion; 4. Conclusions; Acknowledgments; References; Dynamics of Visible Absorbance Spectrum of Hemoglobin Solution Incubated with Glucose E. N. Lazareva and V. V. Tuchin; 1. Introduction; 2. Materials and Methods; 3. Experimental Results and Discussion 4. ConclusionsAcknowledgment; References; Research on the Moire Chromatography Technique and its Application T. Li, H. Yan, B. Tan, Z. Li and S. Wang; 1. Introduction; 2. Basic Principle of Moire Chromatography Technique; 2.1. Beam Deflect Effect; 2.2. Formation and Characteristic of Moire Pattern; 2.3. Deflection Analysis of Moire Pattern on the Transformation Coordinate; 3. Computer Simulation Algorithm; 3.1. Series c sin Expansion Method; 3.2. Computer Network Algorithm; 4. Computer Network Algorithm; 5. Experiment and Discussion 5.1. Utilize the Multi-Direction Moire Deflection System to Do a Simulation Test of Dual-Core Flame
Sommario/riassunto	This unique volume contains selected papers presented at the 6th International Conference on Photonics and Imaging in Biology and Medicine (PIBM 2007), held on November 4-6, 2007 at Wuhan National

Laboratory for Optoelectronics, Huazhong University of Science and Technology, Wuhan, P R China. PIBM is designed to bring together scientists, engineers and clinical researchers from a variety of disciplines engaged in applying optical science, photonics and imaging technologies to problems in biology and medicine. The scope of this conference ranges from basic research to instrumentation engineering
