Laser Tissue Interaction Selected Spie Papers

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Time dispersion plays an important role in the propagation of femtosecond pulses through water. The combined effects of time dispersion, radial diffraction and the Kerr nonlinearity on the pulse propagation are analyzed and it is shown that normal time dispersion leads to significant temporal broadening of ultrashort pulses and that it increases the threshold power for catastrophic self-focusing.

Optical Interactions with Tissue and Cells XXXI ... - SPIE

Cross-polarization OCT needle probe for combined blood vessels detection and tissue differentiation during stereotactic biopsy of brain tumors Paper 11079-49 Time: 12:00 PM - 2:00 PM

Laser-Tissue Interaction II | (1991) | Publications | Spie

Laser-Tissue Interaction, Tissue Optics, and Laser Welding III Editor(s): Guy P. Delacretaz ; Guilhem Godlewski M.D.; Roberto Pini ; Rudolf W. Steiner ; Lars Othar Svaasand *This item is only available on the SPIE Digital Library .

Translation of Lasers and Biophotonics Technologies ... - SPIE

The medical laser applications are defined by the type of interaction between laser light and tissues. Knowledge of laser-tissue interaction can help doctors or surgeons to select the optimal laser systems and to modify the type of their therapy 1-3. Therefore, we seek to review the mechanisms of laser- tissue interaction.

Laser-tissue interaction - SPIE

In concept, PDT requires a laser wavelength that matches an absorption peak of the photosensitizer and a penetration depth to reach all of the targeted tissue. Dosimetry will depend upon the needed fluence rate 4(z) of the light at the targeted depth.

Laser-Tissue Interaction IV | (1993) | Publications | Spie

Laser-Tissue Interactions. Thermal lasers are used for tissue coagulation and vaporisation. For tissue ablation, high absorption of the laser light by the tissue is necessary, as is high power density of the laser pulse (>100 kW/cm^2). Keep in mind that the shorter the laser pulse or the laser irradiation on the same spot,...

Laser-tissue interaction - SPIE Digital Library

PDT of rat mammary adenocarcinoma in vitro and in a rat dorsal-skin-flap window chamber using Photofrin and chloroaluminum-sulfonated phthalocyanine

Mechanisms of Laser-Tissue Interaction: II. Tissue Thermal ...

3. Laser-Tissue Interactions. The course introduces the interaction of lasers and conventional light sources with tissues and biomaterials. The topics are photochemical mechanisms of interaction, and examples include photodynamic therapy (a light-activated chemotherapy for cancer and other pathology) and light-activated adhesives; photothermal mechanisms of interactions, and examples include ...

Laser-Tissue Interaction | (1990) | Publications | Spie
Laser-induced tissue ablation described by linear mass loss model Proceedings of SPIE (February 24 2000) Optical detection of laser induced stress waves for measurement of...

Femtosecond laser-tissue interaction - SPIE
Responses of tissue to laser stimulation are crucial in both disease diagnostics and treatment. In general, when tissue absorbs laser energy photothermal interaction occurs. The most important signature of the photothermal reaction is the tissue temperature change during and after the laser irradiation.

Laser-Tissue Interaction VII | (1996) | Publications | Spie
Laser based techniques are in continuous development in medical research, diagnostics, and therapeutics. For example, in ophthalmology these techniques are ranging from a well established technique such as photocoagulation of retinal vessels with blue light from continuous emitting argon ion lasers, to the more recently developed technique with pulsed infrared emission from neodymium-yttrium ...

Curriculum in biomedical optics and laser-tissue interactions
Dr. Wei R. Chen Dean, UCO College of Math & Science ... please wait... Area of Expertise: Biomedical Optics, Laser-tissue interaction, Laser induced immune responses, laser immunotherapy for cancer treatment, Nanotechnology in cancer treatment, Biomedical ... Get your own SPIE Profile. 1. Sign in to your account or Create an Account. 2.

(PDF) Laser-Tissue Interactions - ResearchGate
The basic mechanisms of laser tissue and cell interactions fall into three categories: photochemical, photomechanical, and photothermal. These mechanisms form a fundamental basis for the field but are now expanded to include the cellular and bio-molecular response to irradiation from lasers and laser systems both in vitro and in vivo.

Thermal Interaction between laser & tissue during retinal ...
Therapeutic Laser Applications and Laser-Tissue Interactions: Authors: Steiner, Rudolf W. Affiliation: AA(Univ. Ulm (Germany)) Publication: Therapeutic Laser Applications and Laser-Tissue Interactions. Edited by Steiner, Rudolf W. Proceedings of the SPIE, Volume 5142, pp. (2003). (SPIE Homepage) Publication Date: 10/2003: Origin:

Laser-Tissue Interaction | SpringerLink
Thermal Interaction between laser & tissue during retinal photocoagulation Pradeep Gopalakrishnan a, Michael J. Kazmierczak a, Rupak K. Banerjee* a,b aMechanical, bBiomedical Engineering Department University of Cincinnati, Cincinnati, OH 45221

Laser-Tissue Interaction, Tissue Optics, and Laser ... - SPIE
MRI-guided holmium:YAG interstitial laser phototherapy and cavitron ultrasonic aspiration in an ex-vivo model: a comparison and dosimetry study of laser/ultrasonic tissue interactions

Laser-Tissue Interactions - SPIE
Combination of erbium and holmium laser radiation for tissue ablation Author(s): Hans Surya Pratisto; Martin Frenz ; Flurin Koenz; Hans Joerg Altermatt; Heinz P. Weber

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Laser-Tissue Interaction. Chapter. There are many uses of lasers for medical purposes, including both diagnostic and therapeutic procedures. In order to effectively select, and predict the result of laser energy that is to be applied to living tissue, one must have a basic understanding of laser-tissue interaction.

Laser-tissue photothermal interaction and tissue ...
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Laser Tissue Interaction Selected Spie

Trivalent thulium laser at 1.95 um for enhanced laser-tissue interactions Author(s): Leon Esterowitz; Robert C. Stoneman ; Robert F. Bonner