Special Issue

New Insights into Laser Molecular Spectroscopy and Imaging in Drug Development and Delivery, Tissue Studies and Therapy

Message from the Guest Editors

Information about tissue morphology and chemical content is vital for the development and control of the efficiency of new methods for medical diagnostics and therapy, including tissue topical drug delivery. The latter has the option of the introduction of special multi-purpose agents, which can also improve tissue visualization and enhance the specificity of tissue state evaluation. In recent years, laser imaging has become a promising technique to enhance the delivery of both small- and large-molecule drugs, tissue processing, intra-tissue drug screening, and phototherapy, which are applicable to many areas of biomedical research. The most promising laser molecular imaging modalities are Raman spectroscopy and microscopy, multi-photon microscopy, and fluorescent lifetime microscopy. They allow studying active substances metabolism in tissues, which is useful for new drug development, tissue topical delivery and therapy, and would be powerful diagnostic tools for tissue engineering and drug delivery.

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