Conference:

Biomedical Spectroscopy VII

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Saratov State University, Russia

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Dzmitry Shcharbin, Institute of Biophysics and Cell Engineering of NASB, Belarus

Andre Skirtach, Ghent University, Belgium

The scope of the Conference
covers the diversity of spectroscopic modalities as applied to the study of bioobjects, including human body, and modern and continuously renovated biomaterials. The Conference subjects are also relevant to the fundamentals of acquisition of reliable spectral data from optically inhomogeneous objects of complex chemical composition and applications of spectroscopic standard practice and expedients in environmental science. We expect to see on the agenda, among the reports and discussions in the audience of peers, authoritative reviews of current research and recent progress addressed in their form of presentation to advanced undergraduate and postgraduate university students.

Topics

The scope and content of the Conference Scientific Program may cover, but in no way is restricted to, the following topic areas:

➢ Spectral characteristics of nanoparticles and nanostructures used in optical diagnostics and theranostics;

➢ Spectroscopic issues in optical biopsy;

➢ Nano- and molecular probes;

➢ Laser spectroscopy of bioobjects and biomaterials;

➢ Spectroscopic techniques for environment monitoring;

➢ Pitfalls and remedies in spectroscopic measurements;

➢ *In vivo* and *in vitro* measurements;

➢ Spectroscopy of random and ordered media;

➢ Polarization spectroscopy;

➢ Spectroscopic measurements on tissue phantoms.