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Professor Kirill V. Larin received his first M.S. in Laser Physics and Mathematics from the Saratov State University in Russia (1995), his second M.S. in Cellular Physiology and Molecular Biophysics (2001) and Ph.D. in Biomedical Engineering (2002) from the University of Texas Medical Branch in Galveston. His research contributions are in Biomedical Optics and Biophotonics and development and application of various optical methods for noninvasive and nondestructive imaging and diagnostics of tissues and cells. Larin has authored more than 120 peer-reviewed publications. He is the recipient of numerous wards including prestigious Presidential Award from Russian President Boris Yeltsin. He was inducted as Fellow of SPIE in 2015 and Fellow of OSA in 2016.

ABSTRACT

Structural and Functional Imaging of Tissues with Optical Coherence Tomography/Elastography

Development of novel methods for structural and functional imaging, monitoring and quantification of different biological processes in tissues and small organs has gained tremendous interest in view of the varied applications of Biomedical Optics. In this talk I will overview several research projects in the Biomedical Optics Lab on development and applications of Optical Coherence Tomography technique for structural and functional imaging of different tissues, including imaging of mammalian embryonic development and quantifying biomechanical properties of different tissues.