



# Handbook of Biomedical Nonlinear Optical Microscopy

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## Handbook of Biomedical Nonlinear Optical Microscopy

The *Handbook of Biomedical Nonlinear Optical Microscopy* provides comprehensive treatment of the theories, techniques, and biomedical applications of nonlinear optics and microscopy for cell biologists, life scientists, biomedical engineers, and clinicians. The chapters are separated into basic and advanced sections, and provide both textual and graphical illustrations of all key concepts. The more basic sections are aimed at life scientists without advanced training in physics and mathematics, and tutorials are provided for the more challenging sections.

The first part of the *Handbook* introduces the historical context of nonlinear microscopy. The second part presents the nonlinear optical theory of two- and multiphoton excited fluorescence (TPE, MPE) spectroscopy, second and third harmonic generation (SHG, THG) spectroscopy, and coherent anti-Stokes Raman spectroscopy (CARS). The third part introduces modern microscopic and spectroscopic instrumentation and techniques that are based on nonlinear optics. The fourth part provides key applications of nonlinear microscopy to the biomedical area: neurobiology, immunology, tumor biology, developmental biology, dermatology, and cellular metabolism. There are also chapters on nonlinear molecular probes, cellular damage, and nanoprocessing.

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