



Imaging the Brain with Optical Methods


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Monitoring brain function with light in vivo has become a reality. The technology of detecting and interpreting patterns of reflected light has reached a degree of maturity that now permits high spatial and temporal resolution visualization at both the systems and cellular levels. There now exist several optical imaging methodologies, based on either hemodynamic changes in nervous tissue or neurally induced light scattering changes, that can be used to measure ongoing activity in the brain. These include the techniques of intrinsic signal optical imaging, near-infrared optical imaging, fast optical imaging based on scattered light, optical imaging with voltage sensitive dyes, and two-photon imaging of hemodynamic signals. The purpose of this volume is to capture some of the latest applications of these methodologies to the study of cerebral cortical function. This volume begins with an overview and history of optical imaging and its use in the study of brain function. Several chapters are devoted to the method of intrinsic signal optical imaging, a method used to record the minute changes in optical absorption due to hemodynamic changes that accompanies cortical activity. Since the detected hemodynamic changes are highly localized, this method has excellent spatial resolution (50–100 μm), a resolution sufficient for visualization of fundamental modules of cerebral cortical function.

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