

Reliable Lab Solutions

ESSENTIAL BIOIMAGING METHODS

Edited by

P. Michael Conn

In 1977 the first MRI examinations required nearly five hours to make one image. Today, technology allows images to be produced in seconds, making it possible to quickly glance inside a living organism in a noninvasive way that enables systems to continue functioning without being disturbed as images are being taken. The value and potential of these techniques is enormous, and these once clinical imaging methods have found their way to the laboratory. As part of the **Reliable Lab Solutions** series, **Essential Bioimaging Methods** offers a clear and comprehensive update of selected chapters that first appeared in P. Michael Conn's two-part "Imaging in Biological Research" series published in **Methods in Enzymology**, giving busy researchers a hand-picked set of robust, time-tested protocols in one concise volume.

With chapters focusing on such varied approaches as high-resolution *in vivo* imaging, noninvasive molecular imaging, microscopic optical imaging methods, and PET, **Essential Bioimaging Methods** provides an all-in-one reference meant to serve as a guide for researchers in the field. Each chapter is comprised of a short review and an easy-to-follow set of protocols that enable even the least experienced researchers to successfully establish the techniques in their laboratories. When possible and applicable, chapters and references have been thoroughly updated by their original authors. The result is an essential set of step-by-step protocols which steer the reader through the challenges of bioimaging and provide an essential guide for researchers in the field.



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