



# Live Cell Imaging: A Laboratory Manual

*Robert D. Goldman*

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## **Live Cell Imaging: A Laboratory Manual** Robert D. Goldman

Recent advances in imaging technology reveal, in real time and great detail, critical changes in living cells and organisms. This manual is a compendium of emerging techniques, organized into two parts: specific methods such as fluorescent labeling, and delivery and detection of labeled molecules in cells; and experimental approaches ranging from the detection of single molecules to the study of dynamic processes in organelles, organs, and whole animals. Although presented primarily as a laboratory manual, the book includes introductory and background material and could be used as a textbook in advanced courses. It also includes a DVD containing movies of living cells in action, created by investigators using the imaging techniques discussed in the book. The editors, David Spector and Robert Goldman, whose previous book was *Cells: A Laboratory Manual*, are highly respected investigators who have taught microscopy courses at Cold Spring Harbor Laboratory, the Marine Biology Laboratory at Woods Hole, and Northwestern University. Related Titles from the Publisher *Basic Methods in Microscopy Cells: A Laboratory Manual* *Imaging in Neuroscience and Development: A Laboratory Manual* *Molecular Cloning: A Laboratory Manual*, 3rd edition

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