

Cytoskeleton Methods and Protocols

Second Edition

Edited by

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In the ten years since the publication of the first edition, great advances in fluorescent labeling, optics, and sample preparation have significantly improved the imaging capability of microscopy, allowing for a continual refinement of our understanding of the cytoskeleton as a dynamic synergy of components. In *Cytoskeleton Methods and Protocols, Second Edition*, internationally renowned experts present techniques which reflect many of the recent technological advances in experimental tools for cytoskeleton research with emphasis on animal, plant, protist, and fungal model systems. This cutting-edge volume contains methods for live-cell imaging, fluorescence microscopy, electron microscopy, analysis of cell and organelle motility, isolation of cytoskeleton components, and proteomics, amongst other topics. As a volume in the highly successful *Methods in Molecular Biology*™ series, chapters incorporate introductions to their respective subjects, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes that provide unpublished technical information on troubleshooting and avoiding known pitfalls.

Up-to-date and comprehensive, *Cytoskeleton Methods and Protocols, Second Edition* serves as an ideal guide to scientists who wish to continue this fruitful and important biological research.

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