

# SHORT PROTOCOLS IN MOLECULAR BIOLOGY

Fourth Edition



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A Compendium of Methods from  
**CURRENT PROTOCOLS IN MOLECULAR BIOLOGY**

# Short Protocols In Molecular Biology

**EW Minium**



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methods from every aspect of cell biology everything needed to study the basic structure and functions of cells at both the molecular and cellular levels

*Laboratory Investigations in Molecular Biology* Steven A. Williams, Barton Elliott Slatko, John R. McCarrey, 2007 *Laboratory Investigations in Molecular Biology* presents well tested protocols in molecular biology that are commonly used in currently active research labs It is an ideal laboratory manual for college level courses in molecular biology Because of the modular organization of the manual laboratory courses can be assembled that would be ideal for science professionals graduate students undergraduate students and even advanced high school students in AP courses The manual is also intended to be useful as a laboratory bench reference The experiments are designed to guide students through realistic research projects and to provide students with instruction in methods and approaches that can be immediately translated into research projects conducted in modern research laboratories Although these experiments have been conducted and optimized over 20 years of teaching the New England Biolabs Molecular Biology Summer Workshops they are real research projects not canned experiments Based on extensive teaching experience using these protocols the authors have found that conducting these experiments as described in these protocols serves to effectively instruct students and science professions in the basic methods of molecular biology An additional unique feature is that the protocols described in the manual are accompanied by available reagent kits that provide quality tested pre packaged reagents to ensure the successful application of these protocols in a laboratory course setting

*Centrosomes in Development and Disease* Erich A. Nigg, 2006-01-24 Discovered over a century ago the centrosome is the major microtubule organizing center of the animal cell It is a tiny organelle of surprising structural complexity Over the last few years our understanding of the structure and composition of centrosomes has greatly advanced and the demonstration of frequent centrosome anomalies in most common human tumors has sparked additional interest in the role of this organelle in a broader scientific community The centrosome controls the number and distribution of microtubules a major element of the cell cytoskeleton and hence influences many important cellular functions and properties These include cell shape polarity and motility as well as the intracellular transport and positioning of various organelles Of particular interest centrosome function is critical for chromosome segregation and cell division This book is meant to summarize our current knowledge of the structure function and evolution of microtubule organizing centers primarily centrosomes Emphasis is on the role of these organelles in development and disease particularly cancer

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