



Drosophila Cytogenetics Protocols (Methods in Molecular Biology)

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Leading drosophilists describe in step-by-step detail all the essential techniques for studying Drosophila chromosomes and suggest new avenues for scientific exploration. The chapters emphasize specimen preparation (from dissection to mounting) and cover both polytene and mitotic/meiotic chromosomes in depth. Each fully tested and readily reproducible protocol offers a background introduction, equipment and reagent lists, and tips on troubleshooting and avoiding pitfalls. A cutting-edge FISH and immunolocalization technique will be important for discovering how DNA sequence influences higher-order chromosome architecture and ultimately gene expression.

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Editorial Review

Review

...this volume will be worth returning to for years to come...the spirit of this volume is not that it will get you through, but that it will make you comfortable with the technology and put you in touch with the art form...a valuable and stimulating source of essential technical information for all experimental 'drosophilists'. - *Nature Genetics*

From the Back Cover

Probably no single experimental organism has contributed as much to our understanding of the structure, function, and mechanism of transmission of eukaryotic chromosomes as has the fruit fly, *Drosophila melanogaster*. In *Drosophila Cytogenetics Protocols*, leading drosophilists describe, in step-by-step detail, all the essential techniques for studying *Drosophila* chromosomes and suggest new avenues for scientific exploration. General areas covered include analyses of nuclei and chromosomes in spermatogenesis and oogenesis, fluorescence-activated cell sorting of ovarian follicle cells, analyses of nuclear division cycles in embryos, and analyses of programmed cell death. In addition, there are conventional light-, electron-, and immunofluorescence-microscopic analyses of polytene chromosomes; cytological analyses of larval brains, imaginal discs, and histoblasts; and nonfluorescent and fluorescent *in situ* hybridization (FISH) to both polytene and mitotic chromosomes. A cutting-edge combined FISH and immunolocalization protocol will be important for discovering how DNA sequence influences higher-order chromosome architecture and ultimately gene expression. Each readily reproducible protocol offers a background introduction, equipment and reagent lists, and tips on troubleshooting and avoiding pitfalls.

Readily accessible and highly practical, *Drosophila Cytogenetics Protocols* provides a comprehensive cytogenetics laboratory manual for *Drosophila* investigators, one that is suitable not only for novices, but also highly informative for seasoned investigators.

Users Review

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Juan Higgins:

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