



Atlas of Drosophila Morphology: Wild-type and Classical Mutants

By Sylwester Chyb, Nicolas Gompel



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The **Atlas of Drosophila Morphology: Wild-type and Classical Mutants** is the guide every *Drosophila* researcher wished they had when first learning genetic markers, and the tool they wish they had now as a handy reference in their lab research. Previously, scientists had only poor-quality images or sketches to work with, and then scattered resources online - but no single visual resource quickly at their fingertips when explaining markers to new members of the lab, or selecting flies to do their genetic crosses, or hybrids.

This alphabetized guide to *Drosophila* genetic markers lays flat in the lab for easy referencing. It contains high-resolution images of flies and the appropriate marker on the left side of each page and helpful information for the marker on the facing page, such as symbol, gene name, synonyms, chromosome location, brief informative description of the morphology, and comments on marker reliability. A companion website with updated information, useful links, and additional data provided by the authors complements this extremely valuable resource.

- Provides an opening chapter with a well-illustrated introduction to *Drosophila* morphology
- Features high-resolution illustrations, including those of the most common markers used by *Drosophila* researchers
- Contains brief, practical descriptions and tips for deciphering the phenotype
- Includes material relevant for beginners and the most experienced fly pushers



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Editorial Review

Review

"...a must have book for every Drosophila laboratory....successfully fills a long-lasting gap in Drosophila literature and will serve as a high-quality quick reference of standard material for experts as well as beginners." --**European Journal of Entomology**, 'vol. 111 (2014), iss. 4

"The authors have produced a splendid and tremendously valuable resource for the Drosophila laboratory that may also be a fun flip-through for non-Drosophilists...This volume should soon populate the microscope benches of fly rooms worldwide...This is a noteworthy work both for its utility and for its beauty." --**The Quarterly Review of Biology**, June 2014

"Chyb and Gompel present this new spiral-bound atlas for Drosophila researchers featuring sharp digital color photographs...Technical information on genomic location is also provided where available, and mutations are referenced to the online Drosophila genetics database FlyBase." --**Reference & Research Book News**, October 2013

"The **Atlas of Drosophila Morphology** provides a valuable, as well as beautiful, reference source for all those who need to recognize fly mutant phenotypes or who need to decipher the impenetrable jargon of fly anatomical names. A much needed update to the classic works of Demerec and Lindsley & Grell ... A must for any fly lab." --**Ralph J. Greenspan, Kavli Institute for Brain and Mind, UCSD**

"Chyb and Gompel have produced a must-have book for every Drosophilist. The **Atlas of Drosophila Morphology** presents crisp, high-definition color images of all the classic morphological mutants a fly pusher needs to recognize, displayed side-by-side with a wild type fly." --**Leslie B. Vosshall, HHMI-The Rockefeller University**

"Drosophila is an exceptionally favorable model to investigate a plethora of biological problems. This book appears remarkably valuable not only for professional drosophilists but is particularly well suited for biologists with a modest background in fly genetics, who wish to use Drosophila as a model organism for their specific interests. The beautiful pictures featured in this book, often showing side-by-side mutant flies and wild-type counterparts, will enable easy identifications of the genetic phenotype, and add to the value of this volume." --**Professor Jules Hoffmann, University of Strasbourg, France**

About the Author

Sylwester Chyb is a Visiting Scholar at Trinity College, University of Cambridge. He is interested in the molecular mechanisms underlying insect sensory systems.

Nicolas Gompel is an investigator at the Institute de Biologie du Développement de Marseille (France). His research focuses on the evolution of morphology and behavior in fruit flies.

Users Review

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Paul Greenblatt:

This book untitled Atlas of Drosophila Morphology: Wild-type and Classical Mutants to be one of several books that will best seller in this year, that is because when you read this e-book you can get a lot of benefit upon it. You will easily to buy this particular book in the book shop or you can order it by using online. The publisher in this book sells the e-book too. It makes you easier to read this book, since you can read this book in your Smartphone. So there is no reason to you personally to past this e-book from your list.

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Hayden Wolfe:

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