

DROSOPHILA BIOLOGY AND GENETICS SLIDES IN PDF FORMAT

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The archive 'Otto D melanogaster Images Archive.pdf' is a set of twelve PPS archives on *Drosophila* biology and genetics described below. The archive was meticulously prepared and published by Professor Subhash Chandra Lakhotia on his own initiative at his site 'Centre for Training Teachers to use *Drosophila*'. The archive can be downloaded free of charge at the URL Internet address <https://drive.google.com/file/d/13Q2821r9DrIhthfok4xhXJAct9GgycBu/view>.

Professor Lakhotia (Principal Investigator, Cytogenetics Laboratory, Department of Zoology, Banaras Hindu University, Varanasi 221005 India) is a leading and most distinguished *Drosophila* specialist who can be reached at his email lakhotia@bhu.ac.in.

The contents of this archive should interest primarily *Drosophila* researchers as well as students and professionals specialized in the teaching of Genetics at various College levels.

At their original internet WWW URL location (<https://sites.google.com/view/otto-usp/slides>), from which all the material was obtained and assembled into a single large pdf file (531 images totaling 34.8 Mb), the PPS archives are organized as follows:

(1) Holtzman & Kaufman's images of *Drosophila melanogaster* mutations, a set of six PPS archives (total of 215 slides) with all images contained in Holtzman & Kaufman's FlyBase site of Indiana University (copyright 2013 by Holtzman SL, Kaufman TC. Large-scale imaging of *Drosophila melanogaster* mutations. Fly-Base ID. FBrf0220532): 1.1 - dr_bodycolor_kaufman.pps (6 slides), 1.2 - dr_bristles_kaufman.pps (45 slides), 1.3 - dr_eyecolor_kaufman.pps (55 slides), 1.4 - dr_eyeshape_kaufman.pps (53 slides), 1.5 - dr_headcapsule_kaufman.pps (11 slides), 1.6 - dr_wing_kaufman.pps (45 slides). The original images

(Bristles.pdf, Bristles.tif, EyeColors.pdf, EyeColors.tif, EyeShapes.pdf, EyeShapes.tif, Wings.pdf, Wings.tif) can be freely downloaded from the FlyBase site at the URL electronic address https://flybase.org/static_pages/images/posters/.

(2) Images from the e-book "Elementary Atlas of *Drosophila melanogaster* Mutations" published by the Brazilian Society of Genetics SBG [all images copyright 2022 (original edition) and 2025 (free edition) by the author Paulo A. Otto], a set of four PPS archives with a total of 203 slides: 2.1 - dros_atlas_anat.pps (11 slides), 2.2 - dros_atlas_dev.pps (five slides), 2.3 - dros_atlas_mut.pps (170 slides), 2.4 - dros_atlas_cros.pps (17 slides), showing respectively images of anatomy, development, selected phenotype mutants and crossings involving best known mutants of the fly *Drosophila melanogaster*. Details on the images can be found in the e-book, a review on which was recently published (Otto PA. Elementary atlas of *Drosophila melanogaster* mutations. Genet. Mol. Biol. 45(4): e20220211, 2022. doi: 10.1590/1678-4685-GMB-2022-0211. eCollection 2022).

(3) A single PPS archive (DM_WALLACE.pps) with images of original illustrations made by Edith M. Wallace and a few other authors (a total of 167 slides). All images were scanned from public domain material printed in the *Drosophila* Red Book by Lindsley & Grell or obtained with permission from Dr. Daniel Lindsley, Caltech site and other origins. A biography of Edith Wallace was published recently in the journal *Drosophila Information Service*: Otto PA. Edith M. Wallace (1881?-1964): A belated eulogy to an unsung heroine of science. *Dros. Inf. Serv.* 105: 95-100, 2022).

(4) A single PPS archive (learnfly.pps) with images (a total of 11 slides) from the poster Phenotypic

markers in *Drosophila*. Poster. Wiley Interscience, 2005.

https://wol-prod-cdn.literatumonline.com/pbassets/assets/1526968X/Learning_to_Fly-509469916000.pdf

(copyright by Childress J, Behringer R, Halder G. Learning, 2005). The poster (in pdf archive format) can be obtained free of charge from the above URL electronic address.

All the material contained in the large pdf produced by Professor Lakhotia continues to be available as individual PPS files at their original URL address <https://sites.google.com/view/otto-usp/slides> .