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**Cloning and Characterization of the
Scarlet Gene of ...**

**In *Drosophila melanogaster*, each of
the three paralogous ABC
transporters, White, Scarlet and
Brown, is required for normal
pigmentation of the compound eye.
We have cloned the three**

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**orthologous genes from the beetle
Tribolium castaneum.**

**Biosynthesis of drosopterins, the
red eye pigments of ...
Specificity of the white gene
product is largely determined by its
binding partners (Ewart and**

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Howells, 1998), Brown and Scarlet each producing different eye pigmentation phenotypes. ... Purine transport by malpighian tubules of pteridine-deficient eye color mutants of Drosophila melanogaster.

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White (mutation) - Wikipedia

**F1 $st+st$ All wild-type F1 \times F1 $st+st \times$
 $st+st$ Gamete $st+ st st+ st$ F2 $st+st+$
 $st+st st+st stst$ Ratio 3: 1 wild-type :
scarlet-eye To test Mendel's Law of
Segregation, we examined the
inheritance of eye color by crossing
two pure breeding strains of**

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Drosophila melanogaster that is wild type and scarlet eyes.

**Mutations in the white gene of Drosophila melanogaster ...
Drosophila melanogaster with the white eye mutation often experience an increased sensitivity to light and**

a decrease in visual acuity. They have significantly less in the number of synaptic vesicles of photoreceptors.

**Drosophila ABC transporter mutants white, brown and ...
As I know several genes (like:**

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brown, scarlet, white,...) affect on the eye color in Drosophila melanogaster. On the other hand, eye color in Drosophila was explained as multiple allele inheritance at different references. Pigments are transported by the so called ABC transporters.

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Drosophila Genetics Applying Mendelian Principles through ...
THE discovery of the white-eyed mutant by Morgan marked the advent of *Drosophila* as a genetic model organism. Since then, dozens of eye pigment mutants

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have been isolated in *Drosophila melanogaster* (Lindsley and Zimm 1992). The existence of so many easily recognized variants in eye color fostered the development of biochemical genetics (Beadle and Ephrussi 1935, 1936) and significantly ...

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**DROSOPHILA EYE COLOR: white,
brown, scarlet GENES; ABC
TRANSPORTERS: white**

**Since the discovery of many eye
color mutants, the eye color
pigments of Drosophila
melanogaster have been the subject**

of numerous investigations. Two classes of pigments, the brown “ommochromes” and the red “drospterins”, contribute to the typical eye color phenotype of Drosophila and serve as light?screening pigments . The biosynthetic pathways of these two

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pigments are distinct and do not share enzymes; ommochromes are synthesized from tryptophan, whereas drospterins are ...

**Genetics Unit - Indiana University
Bloomington
The Genetics of Eye Color in**

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Drosophila melanogaster Carol Pollock Biology Program University of British Columbia Vancouver, British Columbia V6T 2B1. Carol Pollock is a lecturer in the Biology Laboratory program at the University of British Columbia.

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Can anyone explain the eye color in Drosophila ...

The white, brown and scarlet genes of Drosophila melanogaster encode proteins which transport guanine or tryptophan (precursors of the red and brown eye colour pigments) and belong to the ABC transporter

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superfamily.

**Scarlet Eye Color Drosophila
Melanogaster
DNA from the scarlet (st) region of
Drosophila melanogaster has been
cloned by chromosome walking,**

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using the breakpoints of a new X-ray-induced third chromosome inversion (In (3LR)st-a27) which breaks in the scarlet (73A3.4) and rosy (87D13-14) regions. Two spontaneous mutants of st (st (1) and st...

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**Exhibit: Mutant Fruit Flies -
Drosophila Genetics ...**

**Figure 15: Thin Layer
Chromatography of the Eye
Pigments of Drosophila**

Melanogaster . 11 Results - Tables

**Table 1: Comparison of Drosophila
pigments to the Wildtype - White**

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strain and ... Strain Wild White

Brown Sepia Scarlet Rosy Eye

Color Red White Red Brown Red

Red Yellow (G) No No No No No No

Blue (faint; F) No No No No No No

Blue - Violet ...

The ABCs of Eye Color in Tribolium

Page 23/36

castaneum: Orthologs of ...

**w: white- Drosophila melanogaster
wild type typically expresses a brick
red eye color. In January 1910,
Thomas Hunt Morgan first
discovered the white gene and
denoted it as w. The discovery of
the white-eye mutation by Morgan**

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**brought about the beginnings of
genetic experimentation and
analysis of Drosophila
melanogaster.**

**LAB REPORT DROSOPHILA
MELANOGASTER - SlideShare
THE normal red-brown eye color of**

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Drosophila melanogaster is due to the presence of two types of light screening pigments, a brown ommochrome (xanthommatin) and a series of red pteridines (drosop- terins) (PHILLIPS and FORREST 1980; SUMMERS, HOW- ELLS and PYLIOTIS 1982). The biosynthetic

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pathways

**Characterisation of white and
yellow eye colour mutant ...
3-Hydroxykynurenine is virtually
absent from st larvae but
accumulates during adult
development in the puparium. Over**

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the period of adult emergence, the accumulated 3-hydroxykynurenine is excreted so that st adults contain none. Larvae of st fed on tryptophan-C 14 medium produce labeled 3-hydroxykynurenine, at a reduced rate, perhaps, compared to wild type. Xanthurenic acid levels in

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st pupae ...

**The Genetics of Eye Color in
Drosophila melanogaster ...
Description**

**A biochemical study of the scarlet
eye-color mutant of ...**

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You'll see enlarged illustrations of fruit flies, *Drosophila melanogaster*. (In our real exhibit you'd be looking at the actual flies crawling around, looking for food or grooming their wings.) ... Notice that their eye color is bright red. Compare them with the other fruit flies here. ... Notice

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**the antennas sticking out in front of
their red ...**

**Vermilion, a sex-linked eye color in
Drosophila ...**

**Red Eyes and Brown Eyes. The
normal eye color for Drosophila
melanogaster is red, as shown in**

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**the photograph above (from the
Wikipedia Commons collection).
There are mutant varieties with
brown eyes.**

**Cloning and Characterization of the
scarlet Gene of ...
melanogaster eye-color mutants**

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(white, scarlet, vermilion, brown) did not show changes in the ommatidia arrangement or ultrastructure [24,58,59]. There are reports about D . melanogaster retina degeneration due to the effect of constant light exposure [60 – 63].

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**Drosophila melanogaster -
Wikipedia**

**SCARLET, AN AUTOSOMAL EYE
COLOR IDENTICAL WITH SEX-
LINKED VERMILION. D. E.
LANCEFELD, COLUMBIA
UNIVERSITY. Vermilion, a sex-**

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linked eye color in *Drosophila melanogaster* (ampelophila), is duplicated in appearance by a new mutant called scarlet (symbol *st*). The gene for scarlet is located in the third chromosome to the left of *dichaete*. In spite of this

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