62. Notes and News

and 254 yellow white \( \Phi \Phi \), 2 normal \( \Phi \Phi \) and 3 yellow white \( \phi \phi \).
The latter two classes were produced by separation of the attached \( X' \) of the yellow white \( \Phi \Phi \).

The data on the location of the new mutation show that it is located in the right end of the \( X \)-chromosome.

Kikkawa, H. Systematics of Drosophila.

I realized that there are (at least) two different groups with respect to the ratio of the total length of autosomes to length of \( X \)-chromosome, viz., the one giving the ratio of about 4:1 and the other, about 1.8:1. \( D. \) melanogaster, \( virilis \), \( funebris \), \( anassasae \), \( ropletre \), etc. belong to the former group, while \( D. \) pseudoobscura, \( affinis \), \( miranda \), etc. belong to the latter. Morphologically, there is also a distinct difference between the two groups in the shape of testis. These characteristics may be worthy of dividing the genus Drosophila into two subgenera. My inference proposed in Proc. Imp. Acad. Tokyo, 9, 1935, may be applicable only to the former group. Full investigation in connection with genetics is now underway.

Parker, D. R. Locus of \( Wy^2 \) (formerly \( cx_b \)).

Crossover counts on the male offspring of females \( \Phi y f/\Phi Wy^2 \Phi g^2 \) were made in order to determine the locus of \( Wy^2 \) more accurately. The results are given: \( v f - 1165; \) \( Wy^2 g^2 - 1111\); \( v Wy^2 g^2 - 1651; \) \( f - 120; \) \( wy^2 f - 111; \) \( wy^2 g^2 - 227; \) \( Wy^2 f - 38; \) \( v - 208; \) \( wy^2 g^2 f - 180; \) \( v Wy^2 f - 1; \) \( g^2 f - 0; \) \( v Wy^2 g^2 f - 5; \) \( f - 5; \) \( v g^2 f - 1; \) \( wy^2 - 1; \) \( v wy^2 - 1; \) \( g^2 f - 0; \) Total 3018.

These data place \( Wy^2 \) about 2 units to the left of \( g^2 \) and 100% of the \( F_1 \) females of a cross of \( Wy^2 x Wy \) were phenotypically \( Wy \); there was no crossing-over observed between \( Wy \) and \( Wy^2 \) in 1328 offspring from \( Wy/wy^2 \).

Stark, M. B. Varieties of tumors. Selected stocks heterozygous for lethals-7, where the \( 1-7 \) males die from the development of melanotic growths, show that the tumors occur in characteristically different tissues. A preliminary description of the stocks follows:

1. Carcinoma or melanoma of salivary gland
2. " " of stomach region
3. " " of lower intestine
4. Lympho-sarcoma
5. Pigmented lipoma

The third-chromosome "benign" tumor is found to involve connective tissue.


\( y^{35a} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-

\( y^{35a} \) and \( y^{303b} \) An allele, pheno-