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Sex chromosome evolution in the house fly

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Propositions accompanying the PhD thesis

Sex chromosome evolution in the house fly:

Genomic distribution and structure of polymorphic male determining loci

Xuan Li

1. Selective conditions such as environmental temperature and non-selective events such as genetic drift can both shape polymorphic sex determining systems. **(This thesis)**
2. Stable sex determining systems in house fly may either be the male heterogametic system or the form that is reminiscent of a female heterogametic system. **(This thesis)**
3. The inter-chromosomal translocation of a sex determining locus of the house fly is mediated by distinctive mechanisms. **(This thesis)**
4. Neither a dominant male determiner nor a dominant female determiner can become homozygous in a sexually reproducing diploid organism.
5. A method is not necessarily the most efficient or the most accurate just because it is widely applied.
6. A good reference is essential in genomic analysis.
7. The house fly has a genome as messy as its diets and living environments, which is likely why it thrives all over the world.
8. Good communication is no less important than good thinking in research.
9. Go for the messes — that's where the action is. **Steven Weinberg, Nobel laureate in Physics**
10. Sometimes it is better to retrace old steps than it is to forge new paths. **Woodman from Hilda**