Title:	Sexual selection and the genetic basis of sperm competitive ability in laboratory population of drosophila melanogaster
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Abstract:	In many promiscuous species, females have the potential to store sperm deposited by many males at the same time. This leads to postcopulatory sexual selection (PSS) mediated by sperm competition. It has been reported that strong PSS can lead to the rapid evolution of sperm competitive ability related traits in males. However, the genetic basis of this rapid evolution is not well understood. Here, I used laboratory populations of Drosophila melanogaster experimentally maintained under either high or low levels of sexual selection to investigate two aspects of the genetic basis of sperm competitive ability: (1) Role of the X chromosome, and (2) Patterns of dominance. To that end I set up reciprocal crosses between the populations evolving under high and low levels of sexual selection and measured the sperm competitive abilities of the F1 progeny. However, I could not find any differences between the sperm competitive abilities of the F1 progeny from any of the crosses.
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