**The effects of accessory proteins on sperm survivability in *Drosophila pseudoobscura***

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Antagonistic co-evolution between males and females to control reproductive success may give rise to a variety of reproductive strategies, such as female spermicides and male accessory proteins. The interplay between male sperm morphology (fertilizing eusperm versus non-fertilizing parasperm), male accessory gland proteins (ACPs), and female reproductive tract proteins (FRPs) has not been assessed. Three aspects of these reproductive traits within *Drosophila pseudoobscura* will be discussed: (1) the effect of ACPs and parasperm proportion on sperm survivability when in the presence of FRPs; (2) the effect of ACPs and parasperm proportion on sperm survivability when not in the presence of FRPs; and (3) the effect of conspecific vs heterospecific ACPs on sperm survivability when in the presence of conspecific FRPs.