

**Selected recent papers on seminal proteins and their actions within mated females:**

- Wong, A., Turchin, M.C., Wolfner, M.F. and Aquadro, C.A. (2011) Temporally variable selection on proteolysis related reproductive tract proteins in *Drosophila*. *Mol. Biol. Evoln.*, in press.
- Sirot, L.K., Wolfner, M.F. and Wigby, S. (2011) Male *Drosophila melanogaster* exploit specific seminal fluid proteins from the ejaculates of rival males. *Proc. Natl. Acad. Sci. USA* 108, 9922-6.
- Sirot, L.K., Hardstone, M.C., Helinski, M.E.H., Ribeiro, J.M.C., Kimura, M., Deewatthanawong, P., Wolfner, M.F., Harrington, L.C. (2011) Towards a semen proteome of the dengue vector mosquito: Protein identification and potential functions *PLoS Neglected Trop. Diseases*, 5, e989.
- Avila, F.W., Ravi Ram, K., Bloch Qazi, M.C. and Wolfner, M.F. (2010) Sex peptide is required for the efficient release of stored sperm in mated *Drosophila* females. *Genetics*, 86, 595-600.
- Avila, F.W., Sirot, L.K., LaFlamme, B.A., Rubinstein, C.D. and Wolfner, M.F. (2010) Insect seminal fluid proteins: identification and function. *Ann. Rev. Entomol.* 56, 21-40.
- Chow, C.Y., Wolfner, M.F. and Clark, A.G. Genetic Interactions Between the Sexes Mediate Sperm Competition in *Drosophila*: *Sex Peptide × Sex Peptide Receptor*. *Genetics*, 186, 1355-65.
- Wong, A., Christopher, A.B., Buehner, N.A. and Wolfner, M.F. (2010) Immortal coils: conserved dimerization motifs of the *Drosophila* seminal prohormone ovulin. *Ins. Biochem. Mol. Bio. Ins. Biochem. Mol. Bio.* 40, 303-10.
- Sirot, L.K., LaFlamme, B.A., Sitnik, J.L., Rubinstein, C.D., Avila, F.W., Chow, C.Y. and Wolfner, M.F. (2009) Molecular social interactions: *Drosophila melanogaster* seminal fluid proteins as a case study. *Adv. Genet.* 68C:23-56.
- Avila, F.W. and Wolfner, M.F. (2009) Acp36DE is required for uterine conformational changes in mated *Drosophila* females. *Proc. Natl. Acad. Sci. USA*, 106, 15796-800.
- Wigby, S., Sirot, L., Linklater, J.R., Buehner, N., Calboli, F., Bretman, A.J., Wolfner, M.F., Chapman, T. (2009) Seminal fluid protein allocation and male reproductive success. *Curr. Biol.*, 19, 751-7
- Ravi Ram, K. and Wolfner, M.F. (2009) A molecular network of seminal proteins underlies the long-term post-mating response in *Drosophila*. *Proc. Natl. Acad. Sci. USA*, 106, 15384-9.
- Wolfner, M.F. (2009) Battle and ballet: molecular interactions between the sexes in *Drosophila*. *J. Hered.*, 100, 399-410.
- McGraw, L.A., Clark, A.G. and Wolfner, M.F. (2008) Post-mating gene expression profiles of female *Drosophila melanogaster* in response to time and to four male accessory gland proteins. *Genetics* 179, 1395-408.
- Mueller, J.L., Linklater, J., Ravi Ram, K., Chapman, T and Wolfner, M.F. (2008) Targeted gene deletion and phenotypic analysis of the *Drosophila melanogaster* seminal fluid protease inhibitor Acp62F. *Genetics*, 78, 1605-14.
- Ravi Ram, K. and Wolfner, M.F. (2007) Sustained post-mating responses in *D. melanogaster* require multiple seminal fluid proteins. *PLoS Genetics*, 3, e238.
- Haerty, W., Jagadeeshan, S., Kulathinal, R.J., Wong, A., Ravi Ram, K., Sirot, L.K., Leveque, L., Artieri, C., Wolfner, M.F., Civetta, A. and Singh, R.S. (2007) Evolution in the fast lane: rapidly evolving sex-and reproduction-related genes in *Drosophila* species. *Genetics*, 177, 1321-35.
- Adams E.M. and Wolfner, M.F. (2007) Seminal proteins, but not sperm, induce morphological changes in the *Drosophila melanogaster* female reproductive tract during sperm storage. *J. Ins. Physiol.* 53, 319-31.
- Ravi Ram, K., Sirot, L.S. and Wolfner, M.F. (2006) A predicted seminal astacin-like protease is required for the processing of reproductive proteins in *Drosophila melanogaster*. *Proc. Natl. Acad. Sci. USA*, 103, 10674-10679.
- Wong, A., Albright, S.N. and Wolfner, M.F. (2006) Evidence for structural constraint on ovulin, a rapidly evolving *Drosophila melanogaster* seminal protein. *Proc. Natl. Acad. Sci. USA*, 103, 18644-18649.
- Heifetz, Y., Vandenberg, L.N., Cohn, H.I. and Wolfner, M.F. (2005) Two cleavage products of the *Drosophila* Acp ovulin can independently induce ovulation. *Proc. Natl. Acad. Sci. USA*, 102, 743-8.
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- Swanson, W.J., Wong, A., Wolfner, M.F. and Aquadro, C.F. (2004) Evolutionary EST analysis of *Drosophila* female reproductive tracts identifies several genes subjected to positive selection. *Genetics*, 168, 1457-1465.
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