



## Life Sciences Seminar

# Genomic and quantitative genetic perspectives of sex-specific selection and its evolutionary consequences

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**Host: Nick Barton/Beatriz Vicoso**

Males and females maximise fitness in very different ways and often experience contrasting selection that favors the evolution of sexual dimorphism. However, because the sexes share a common genome, pleiotropic constraints arise that can hamper sex-specific adaptation and generate genomic conflicts between the sexes. While sexual antagonism has been detected in a broad range of taxa, we know far less about how it manifests at the genomic level. In this seminar, I will present our recent studies that combine classic quantitative genetic tools with genomic methods to study sexual antagonism in the fruit fly *Drosophila serrata*. These include multivariate artificial selection experiments, genome-wide association studies of male and female fitness in a new genomic reference panel, and finally fine-scale mapping of a sexually antagonistic gene along a latitudinal cline.

**Monday, November 5, 2018 11:00am - 12:00pm**

IST Austria Campus Meeting room 1st floor / Central Bldg. (I01.1OG - Zentralgebäude)



This invitation is valid as a ticket for the IST Shuttle from and to Heiligenstadt Station. Please find a schedule of the IST Shuttle on our webpage: [http://ist.ac.at/fileadmin/user\\_upload/pdfs/IST\\_shuttle\\_bus.pdf](http://ist.ac.at/fileadmin/user_upload/pdfs/IST_shuttle_bus.pdf) The IST Shuttle bus is marked IST Shuttle (#142) and has the Institute Logo printed on the side.