Seminar/Talk

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 how 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
Meeting room 1st floor / Central Bldg. (I01.1OG - Zentralgebäude)

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