



Seminar(i)

Eco-Evo-Devo in insect models: developmental plasticity & changing environments

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Eco-Evo-Devo combines concepts and approaches from different disciplines towards a better understanding of the patterns and underlying processes of inter-individual variation and inter-species divergence. It is clear that environmental conditions shape phenotypic variation through effects at different levels and time-scales; changes in phenotype frequencies by natural selection and changes in phenotype expression due to phenotypic plasticity. In particular, the environmental conditions experienced during development can determine the production of distinct phenotypes from the same genotype; a phenomenon called developmental plasticity. This plasticity can match phenotype to ecological conditions and help organisms to cope with environmental heterogeneity, including differences between alternating seasons. Using insect models of seasonal plasticity, *Bicyclus anynana* butterflies and *Drosophila melanogaster* flies, I will illustrate the context dependence of temperature effects on phenotype, as well as the genetic basis of variation in thermal plasticity.

WHERE? | Salón de Actos (Edificio Cabecera)

Presencial

WHEN? | Monday 27/05/2024 – 15:30 h

LANGUAGE? | English