



## Mini-Symposium: Habitat matching – concepts and eco- evolutionary implications

*Adaptation to the environment is a main challenge for living organisms. It is generally thought that deterministic evolutionary adaptation is only driven by natural selection, whereas other forces such as mutation, recombination and gene flow only provide genetic variation on which natural selection can act. There is a growing recognition that we need to acknowledge a second, distinct evolutionary force that can independently drive adaptive evolution, for which we use the term “selection of the environment”. A powerful behaviour leading to selection of the environment is matching habitat choice: habitat choice driven by the assessment of local performance, as a function of the phenotype. In this mini-symposium, we will present empirical and theoretical research on the causes and consequences of habitat matching.*

**14.00-14.40 Pim Edelaar** (CISC, University Pablo de Olavide, Sevilla, Spain ): Conceptual and empirical evidence that matching habitat choice is part of a distinct mechanism of evolutionary adaptation.

**14.40-15.20 Staffan Jacob** (UCL, Louvain la Neuve, Belgium): From random dispersal to habitat matching: evidence and implications

**15.40-16.20 Pim Edelaar** (CISC, University Pablo de Olavide, Sevilla, Spain ): Causes, consequences and limitations of matching habitat choice as a mechanism of adaptation to environmental variation.

**16.20-** Small reception and discussions

**DATE:** Wednesday 8th June 2016

**Location:** UGENT – Campus Ledeganck - meeting room 11<sup>th</sup> floor