



PhD position: Evolutionary Genetics of Development

A PhD position is available in the context of a research project between the laboratory of Christian Braendle (Institut de Biologie Valrose, Nice; <http://www.braendlelab.net>) and Henrique Teotonio (Institut de Biologie, Ecole Normale Supérieure, Paris; <http://www.ibens.ens.fr/spip.php?rubrique28&lang=en>)

The project will characterize the effects of different breeding systems on the evolution of *C. elegans* hermaphrodite germline development. The key objectives are (1) to perform experimental evolution under different sex ratios of males, females and hermaphrodites; (2) to characterize the genetic basis of hermaphrodite germline traits through genetic transformation methods and a genome-wide association study; and (3) to determine how natural selection at candidate loci depends on hermaphrodite germline developmental evolution.

The candidate should have a Master's degree in evolutionary biology and an understanding of the fundamental problems of quantitative genetics, population genetics and developmental genetics, including QTL and GWAS mapping. Candidates with experience in computer programming, experimental evolution, developmental phenotyping and statistical analysis of large data sets are preferred. The PhD student will be expected to conduct full-time independent research in the Braendle lab.

The PhD position is funded by the National Agency of French Research (ANR) for three years, subject to an initial evaluation after 6 months, with a potential one-year extension. The starting date is flexible.

To apply, send a CV, a letter of motivation, and the contact information for two referees as a single PDF file to Christian Braendle (braendle@unice.fr). Informal inquiries are welcome.

For relevant background information see:

Carvalho et al. 2014. <http://doi.org/10.1186/1471-2148-14-117>

Poulet et al. 2016. <http://doi.org/10.1111/evo.13032>

Noble et al. 2017. <http://doi.org/10.1534/genetics.117.300406>

Teotonio et al. 2017. <http://doi.org/10.1534/genetics.115.186288>