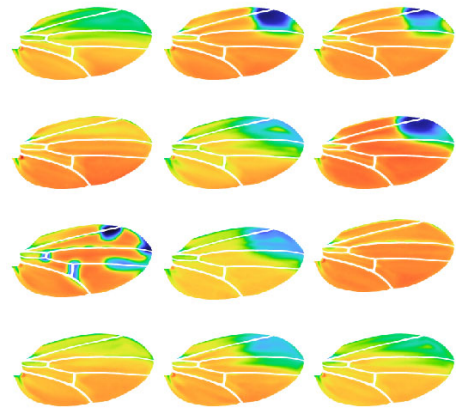


PhD position: Regulatory Evolution in *Drosophila* – Gompel lab

Scientific context and project

The diversity of animal forms results from changes in shape, changes in size, as well as the emergence of new characters. The genetic origin of these evolutionary changes begins to be well understood. There is, however, another level of morphological diversification that remains much less understood, the quantitative variation of characters, such as the continuous range of colors or hues that decorate animals. With this project, we propose to use the different shades of gray that ornate the wings of fruit flies species closely related to the model organism *Drosophila melanogaster*, to address this problem. Leveraging the power of *Drosophila* genetics, the project will examine how the regulation of a pigmentation gene is tuned between species to produce this variation in pigmentation intensity.



We are looking for a PhD candidate to lead this project, combining molecular biology, *Drosophila* genetics, and quantitative image analysis.

Our research group is located at the Biozentrum of the Ludwig Maximilian University (LMU) in Munich. With an international and interdisciplinary team, we train students to become full-fledged geneticists with a strong emphasis on quantitative approaches.

Expected candidate background

The successful candidate is expected to have a strong theoretical background in Developmental Biology, Genetics and Molecular Biology. Practical experience with *Drosophila* genetics or molecular biology is an asset but not necessary for this position. Similarly, the ability to code in Matlab, Python or R is desirable but not mandatory to apply. Proficiency in English (oral and written) is required.

Application

Send your résumé, a transcript of your latest grades (Master or equivalent), and a 1-page motivation letter to Prof. Dr. Nicolas Gompel (gompel@bio.lmu.de).

Additional information can be found on www.gompel.org