

PhD-student position

Evolutionary Genetics/genomics

These position offers opportunities to explore a wide range of evolutionary paradigms, from the genomic consequences of selfing vs outcrossing, to the early steps in the evolution of sex chromosomes.

Our research group uses the filamentous ascomycete genus *Neurospora* as a model system. *Neurospora* is well suited for studies on reproductive systems since its closely related species exhibit a wide spectrum of reproductive behavior. Furthermore, we use the mating-type chromosome of *Neurospora tetrasperma* as a simple, general, model for studies of the early evolution of sex chromosomes from autosomes. It shares features with the complex sex chromosomes found in the animal and plant kingdom, but is not affected by complex sex-biased evolutionary forces such as sexual selection and male biased mutation rate.

The project can be developed after the interest of the applicant, but should preferably involve large scale SNP-typing and/or high throughput sequencing of natural populations of *Neurospora*.

If you are interested, please contact me for more information.

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