



## FACULTY OF SCIENCE Charles University

A PhD position is available in Clément Lafon Placette's group, in the Department of Botany of Charles University in Prague.

**Title of the PhD project:** Sexual selection and sexual trait evolution in *Arabidopsis* spp.

**Starting date:** October 2018.

**Project summary:** It has been proposed that sexual selection is a major driver of plant reproduction evolution. In other words, the relative availability of sexual partners establishes a selection pressure that drives the evolution of pre-fertilization sexual traits such as pollen development or pollen-pistil interaction, but also post-fertilization sexual traits such as seed development. In addition, divergent sexual selection could lead to divergent sexual trait evolution, and consequently, establish reproductive barriers between populations (speciation). The PhD project will test these hypotheses in plant populations of the outcrossing species *Arabidopsis lyrata* and *A. arenosa*. A focus will be put on seed and pollen development, transcriptomics and population genomics. The successful candidate is expected to have a broad and strong interest in plant evolution, plant development and bioinformatics. Previous experience in any of these fields is a plus.

If you are interested, please contact Clément Lafon Placette at [clement.lafon.placette@slu.se](mailto:clement.lafon.placette@slu.se).