The group of Prof. Klaus Reinhardt in the Institute of Zoology in the Department of Biology (TU Dresden) is interested in molecular and evolutionary aspects of insect sperm biology and fertility.

In the proposed project, you will study the molecular function of the abundant sperm proteins protamines in the fertility of the male fruit fly Drosophila melanogaster. Protamines largely replace histones in the nucleus in final stages of sperm maturation and lead to highly compacted chromatin.

Transgenic fruitflies expressing eGFP-tagged protamines will be used to characterize molecular functions during final stages of spermatogenesis using biochemical analyses and further approaches.

If you are interested in the project, please contact Dr. Cornelia Wetzker (email: firstname.lastname@tu-dresden.de).