

**Start date:** October 2022  
**Duration:** 9-12 months  
**Payment:** acc. to FWF rates  
**Location:** Veterinary University Vienna  
**Contact:** heidi.neubauer@vetmeduni.ac.at

### Master's Thesis - "Exploring oncogenic mechanisms in Myeloproliferative Neoplasms"

We are looking for a highly motivated master student to work on an exciting project we have available exploring oncogenic mechanisms in blood cancer. This project will be supervised by Heidi Neubauer and her PhD student Marie Ploderer, who is studying the JAK/STAT pathway in myeloproliferative neoplasms, an incurable type of blood cancer.

To help us gain insight into the processes involved in disease pathogenesis, one of the aims of the project will be to generate knock-out cell lines using the CRISPR/Cas9 technology as well as characterizing these cell lines using standard molecular biology techniques (e.g. qPCR, western blots, proliferation and apoptosis assays, flow cytometric analysis). Additionally, to study myeloid cell differentiation, experiments using a hematopoietic stem cell line are planned. The candidate will also have the opportunity to assist with and learn techniques involved in mouse handling and analysis of our novel MPN mouse model. We are thus looking for someone who is interested in cancer biology, eager to learn new things and who shows initiative and independence where needed. In turn, we offer extensive training in state-of-the-art and standard techniques, individual supervision and payment according to the FWF rates.

Please send your application with your CV and potential letters of recommendation to Dr. Heidi Neubauer at [heidi.neubauer@vetmeduni.ac.at](mailto:heidi.neubauer@vetmeduni.ac.at).

For further information on our lab and ongoing research, you can visit our website <https://morigglab.com/> or contact Heidi via email. We are looking forward to hearing from you!