

## **Master's Thesis at the Institute of Pharmacology**

The Department of Molecular Pharmacology (Prof. Dr. Rohini Kuner) is seeking a Master's student to support research efforts starting in September or October (to be discussed during the interview).

### **Requirements:**

- Currently enrolled as a Master's student in Biology, Neuroscience, or a related field
- Proficient in English
- Demonstrates independence and reliability
- Strong scientific background
- Preferred: Possession of a mouse handling certificate, experience in EPI or Confocal microscopy imaging and analysis

**Project Overview:** The research will focus on investigating chronic pain pathways and characterizing sub-populated neurons between rAAC, MD, and NAc in mice.

### **Key Responsibilities:**

- Brain slicing and preparation
- Synaptic tracing
- Epi-microscope and Confocal microscope usage
- Image analysis with ImageJ
- More experiments can be added after a discussion and student's enthusiasm

### **Additional Responsibilities for Those with a Mouse Handling Certificate:**

- Mouse perfusion
- Mouse brain AAV injections

**Contact Information:** For further inquiries and to submit your application, please contact Juhyun Kang via email at [juhyun.kang@pharma.uni-heidelberg.de](mailto:juhyun.kang@pharma.uni-heidelberg.de).

### **Related Publication:**

Zheng Gan et al., Layer-specific pain relief pathways originating from primary motor cortex. *Science* 378,1336-1343(2022).