

## **Master thesis in Molecular Biology (m/f/d)**

**Title:** Molecular characterization of genetic and epigenetic vulnerabilities and novel oncogenic routes in pediatric glioma

**Location:** Max-Eder Group at LMU's Dr. von Hauner Children's Hospital

**Start date:** As soon as possible

**Primary Investigator:** Dr. Christian Braun

### **Field of study:**

Pediatric gliomas are still limited in treatment options and in many cases those that survive suffer life-long repercussions and disabilities. During gliomagenesis cells acquired novel genetic perturbations that drive uncontrolled growth, this progression renders cancer cells dependent to specific molecular processes that can be exploited therapeutically. The future of personalized medicine requires in depth characterization of molecular biomarkers to stratify patients based on their molecular backgrounds. We employ state of the art model systems for pediatric tumors and high-throughput genomic and post transcriptional CRISPR screens, to discover and depict new targetable vulnerabilities to advance the therapy of pediatric nervous system tumors (PNAS, 2016; Cancer Cell, 2017; NAR, 2020; Nature Reviews Cancer 2020).

### **Our Offer:**

We are looking for a highly motivated Master student interested in an academic career in cancer biology and translational medicine. We offer personalized supervision and instruction of novel molecular techniques. We are a dynamic group and stimulate students to develop their own projects based on their own curiosity and ideas.

### **Requirements:**

- Greatly motivated, scientifically ambitious with excellent English oral and written skills
- German A2 Level
- Very organized and structured student
- Above average academic grades
- Optional: Experience in mammalian cell culture

### **You can expect**

- To perform research at a renowned and multidisciplinary institute in the heart of Munich's academic environment.
- To acquire a deeper understanding in cancer biology, functional genomics and translational medicine.
- Further academic/career possibilities and prospects for the highly motivated

### **How to apply**

Please send the following application-relevant information to Dr. Christian Braun

([chr.braun@med.lmu.de](mailto:chr.braun@med.lmu.de)) in one PDF with the email title: " Master Thesis Application – Your Name "

- Cover page: full name, current institution and desired starting date
- Curriculum vitae (English or German)
- Letter of Motivation (Briefly describe in one or two paragraphs your motivation to apply)
- Please name up to two references and your relationship to them, please include contact information
- Academic certificates please include your bachelor and master (if available) grades certificates up to date.

Please note the information regarding storage of personal data; it will be deleted permanently after the selection of candidate(s). We are an international and diverse team and encourage the application of all backgrounds. Please refer to our website <https://www.ccrh-hauner.de/research-labs/braun-lab/48534a730dc8e62f> for relevant bibliography and further information. Please feel free to contact us for any questions.