

MASTER'S THESIS

The research group of Prof. Katharina Götze in the Department of Hematology/Oncology of the Technische Universität München is seeking a master student for a research project beginning November 1, 2016.

Our research focuses on the complex interplay of normal and malignant hematopoietic stem cells with their microenvironment in acute myeloid leukemia (AML). We aim to gain a better understanding and improve therapeutic intervention of mechanism underlying stromal resistance of AML cells.

The current master's thesis will be based on *in vitro* experiments using primary healthy and patient material as well as cell line model systems.

- Isolation and culture of mesenchymal stem cells (MSC) and primary stem/progenitor cells from bone marrow samples
- Standard techniques such as Western Blot, PCR and molecular cloning
- Flow cytometry
- Stem cell assays – colony forming unit assays (CFU)
- Manipulation of stromal cell lines and AML cell lines using non-viral and viral transfection methods
- Immunofluorescence microscopy

We are looking for a highly motivated and enthusiastic master's student with a background in cell biology, molecular biology and/or epigenetics and an interest in translational cancer research. We offer an excellent research environment, in-depth training and close collaboration with the clinic. We expect the candidate to work efficiently and also (with time) independently for at least 6 months.

Applicants with disability will be preferred providing they have the same qualification.

Please send curriculum vitae until October 15, 2016 to:

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