

Project Opening for a Masters Thesis

in the field of neonatal cell therapy

We are looking for a motivated and well-organized person to advance our current work in the field of neonatal cell therapy, systems immunology, and early-life development at the Wisgrill lab, Medical University of Vienna, Department of Pediatrics.

Your position

As part of a young and curiosity-driven team you will work on a state-of-the-art project with the aim to improve the storability and durability of red blood cell transfusion units produced from the cord blood of term-born infants. This novel therapy, currently investigated in clinical trials for the treatment of premature infants, still lacks the logistical prerequisites for implementation in clinical practice. Thus, improving cellular durability through biochemical and metabolomic screening will be the first stepping-stone towards efficient clinical utilization.



Experimental techniques

In the course of this Master's thesis, you will employ a variety of experimental techniques such as flow-cytometry, imaging-flow cytometry, light microscopy, as well as biochemical assays and might have the opportunity to work with metabolomics-data. With a few minor exceptions, protocols are already in place, reducing the necessity for meticulous optimization ahead of thesis start.

Your profile

- Bachelor's degree in life-sciences (chemistry/biology or a related field)
- High reliability, motivation and keen interest in cell therapy/ATMPs
- Good team-worker with the ability to self-organize capable of bringing structure into complex tasks
- Experience in cell culture, hematology, cell therapy or flow-cytometry are of advantage, but not a prerequisite

Our offer

- Integration into a young and motivated team of scientists
- Access to novel laboratory equipment and state-of-the-art techniques
- Clearly structured project with designated aims & existing research infrastructure
- Direct supervision & assistance in data-analysis and programming by a dedicated PhD-student

Details regarding the job-offering

- **Duration:** 4-6 months
- **Availability:** With immediate effect – everything is ready to go!
- **Application:** If you are interested in the Msc. project, please send a cover letter stating why you would like to work on the project and a curriculum vitae to michael.eigenschink@meduniwien.ac.at