

Master's Thesis Opportunity in Translational Deep Phenotyping in Psychiatry

Are you passionate about research in psychiatry, particularly involving extracellular vesicles? If you meet our qualifications, we encourage you to apply for a Master's thesis position with our research group.

To apply, please submit the following:

- Your resume
- A cover letter detailing your research interests and relevant experience
- Your contact information

Email your application to: sophie_seeburger@psych.mpg.de.

For more information about our work, visit our group's page: [Translational Deep Phenotyping in Psychiatry](#).

We look forward to reviewing your application!



Master's Thesis Opportunity: Workflow Optimization in Extracellular Vesicle Isolation

Psychiatry – Translational Deep Phenotyping – Schizophrenia – Extracellular Vesicles – Method optimization – Lab work

About our working group

Our primary focus is the development of multimodal biomarkers that identify and predict disease severity and treatment response in schizophrenia spectrum disorders and depression. By identifying these biomarkers, we aim to address clinical challenges represented by the heterogeneity in the etiology and pathophysiology of mental disorders and the variety in their clinical expression and response to treatment.

As a translational research group, our mission is to improve the clinical course and outcomes for individuals affected by mental disorders, ensuring a future where personalized and effective treatments are daily clinical practice. Therefore, we conduct prospective clinical studies to validate our hypothesis.

Position overview

We are seeking a highly motivated Master's student to join our team and contribute to the optimization of a key step in our research workflow. Our project focuses on isolating and analyzing extracellular vesicles from blood samples. A critical component of this process involves using a filter for sample purification.

As part of your thesis, you will investigate whether additional particles are being trapped by the filter, which could potentially affect the purity of the isolated vesicles and subsequent samples. Your objective will be to optimize this filtration step to ensure particle-free samples, directly contributing to the validation of our results and the reduction of sample processing costs.

What we offer

- Opportunity to contribute to an innovative research project in extracellular vesicles
- Hands-on experience with modern laboratory techniques
- Support in your scientific work and potential opportunities for co-authorship in publications

Your profile

- Enrollment in a Master's program in a relevant field (e.g., biology, biomedicine, human biology, etc.).
- Strong interest in laboratory work and workflow optimization.
- Ability to collaborate effectively within a multidisciplinary team.
- A detail-oriented approach to your work.
- Excellent communication and organizational skills.

If you are passionate about advancing research in psychiatry and method optimization, we look forward to receiving your application!

How to apply

To apply, please submit the following to sophie_seeburger@psych.mpg.de:

- Your resume
- A short cover letter detailing your research interests and relevant experience
- Your contact information

For more information about our work, visit our group's page (PI Florian Raabe): [Translational Deep Phenotyping in Psychiatry](#).