

### HMNC Brain Health

HMNC Brain Health (HMNC Holding GmbH) is a precision psychiatry biopharmaceutical company developing personalized treatments for depression based on predictive genetic selection tools. The company's pipeline includes three Phase 2 programs in Major Depressive Disorder (MDD): Nelivabon, with a vasopressin V1b receptor antagonist guided by a proprietary genetic selection tool; Cortibon, with a CRHR1 antagonist with a matching genetic selection tool; and KET01, a prolonged-release oral ketamine formulation designed for safe, at-home treatment.

**And you can go the way with us. Join our team and define tomorrow's treatment success as**

**PhD Student Position in combination within the MLCARE doctoral network**

**Deep Probabilistic Models for Personalized Psychiatry (DC8) / (m/w/d)**

### Project Summary:

This project applies deep probabilistic neural networks (DPNNs) to major depressive disorder, using genetic, clinical, and environmental data to create predictive models for diagnosis and treatment planning.

The researcher will enhance model robustness and interpretability by incorporating structured priors and rectified factor networks. The goal is to identify which biological factors drive depression in different individuals, enabling precision psychiatry informed by both data and clinical expertise.

**Supervisors:** Prof. Dr. Bertram Müller-Myhsok (HMNC), Dr. Lars Arvastson (HMNC)  
**Host:** HMNC Holding GMBH (DE).  
**PhD enrolment:** Ludwig Maximilian University of Munich (DE)

### Why HMNC?

- An inspiring work environment in a young, motivated and international team with flat hierarchies.
- Multiple learning and development opportunities.
- Good connection to public transportation as well as a parking garage in the office building.
- We value diversity – regardless of gender, nationality, ethnic and social origin, religion/belief, physical abilities, age as well as sexual orientation and identity.

Have we awakened your interest? Fill out the central application form on the Euraxess website [DC8 – MLCARE](#). You can further send your complete application via e-mail to [jobs@hmnc-brainhealth.com](mailto:jobs@hmnc-brainhealth.com).

We look forward to meeting you!

### CONTACT:

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