



We are looking to support our rapidly growing team as soon as possible:

## Postdoctoral Researcher (f/m/x) - Biomarker Discovery in Neurodegenerative and Neuropsychiatric Disorders

Psychiatrie und Psychotherapie



TV-L: 38,5 h/week (100%)



limited for 2 years according to WissZeitVG within the framework of a third-party funded project



Your salary will be based on TV-L

### Your tasks

Research focused on identifying and validating blood- and CSFbased biomarkers for neurodegenerative and neuropsychiatric disorders, using machine learning and advanced statistical methods within international consortia and clinical trials. Current projects include:

- Identification of novel prognostic biomarkers for Alzheimer's disease and cognitive decline
- Validation of plasma biomarkers for Alzheimer's disease in diverse populations and establishment of diagnostic cut-offs
- Identification of predictive biomarkers of psychotherapeutic treatment response in late-life depression
- Development of tools for the prediction of biological aging

Main responsibilities include:

- Leading projects involving the design and analysis of complex longitudinal datasets, with emphasis on survival analysis, mixed-effects modeling, biomarker predictive performance, and reproducible data analysis workflows

### Your future with us

We are one of the leading university hospitals in Germany and network research, teaching and health care at the highest level. That's why many things are a lot bigger for us: the spectrum of exciting development opportunities. The limitless openness with which specialists from all over the world work together here. Or our commitment as an employer to support all employees as best we can in reconciling their job with their goals and life situations.

This is the University Hospital of Cologne: Everything but ordinary.

### Your future in detail

Conduct research on the identification and validation of blood- and CSFbased biomarkers associated with neurodegenerative and neuropsychiatric disorders, applying machine learning and advanced statistical methods within international consortia and clinical trials.

Current projects focus on identifying novel prognostic biomarkers for Alzheimer's disease and cognitive decline, validating plasma biomarkers for Alzheimer's disease across diverse populations, establishing

- Biomarker assay validation and implementation
- Supervision of students and technical assistants
- Biobank coordination and database maintenance
- Preparation of scientific publications, conference presentations, consortia reports, and grant applications
- Teaching activities in MSc courses

## Your profile

- PhD or doctoral degree in a life-science-related discipline, such as: Life-science informatics, Molecular medicine, Genetics, Data science, Molecular epidemiology, Public health
- Motivated, collaborative, and team-oriented researcher
- Able to work with high degree of independence
- Strong expertise in "omics"-epidemiological analysis of large cohort data
- Experience working with large cohort datasets is a strong advantage

## Our offer

- **Everything but ordinary:** You can expect a secure job in a challenging, innovative environment – including company pension schemes and regular working hours without business trips.
- **Work-life balance:** Whether full-time or part-time, with or without children – with numerous support options, we will find the right path together.
- **Team spirit in R(h)ine culture:** You will be warmly welcomed by an interdisciplinary team that values mutual respect and helpfulness.
- **Strong perspectives:** We offer extensive training opportunities – so you can continuously grow and set new goals.

Applications from female candidates are expressly welcome and will be given priority in the event of equal suitability, competence and professional performance. People with disabilities are welcome to apply and will be treated preferentially in the event of equal suitability and qualification. The position is suitable for staffing with part-time employees.

## Contact

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diagnostic cut-offs, identifying predictive biomarkers of psychotherapeutic treatment response in late-life depression, and developing tools for the prediction of biological aging. Main responsibilities include leading projects involving the design and analysis of complex longitudinal datasets, with emphasis on survival analysis, mixed-effects modelling, biomarker predictive performance, and reproducible data analysis workflows. Additional responsibilities include biomarker assay validation and implementation, supervision of students and technical assistants, biobank coordination and database maintenance, and preparation of scientific publications, conference presentations, consortia reports, and grant applications. Teaching activities include contributions to MSc-level courses.

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[Uniklinik Köln Karriere](#)

Application deadline: 05.07.2026

Job-ID: q0g5v1cn

[apply now](#)

We look forward to receiving your application and getting to know you!