

Two positions open



Postdoctoral position

Computational biology / bioinformatics

Proteomics

ImmunoPreCept Cluster of Excellence

In the Ralser lab, we use the proteome to study how cells adapt their metabolism changing environments, how they interact with each other, and what makes them resilient to stress. We are also interested in the function of thus far unknown genes and their function in metabolism.

■ What you'll do

- Study the proteome of microbial and human cells that adapt to different metabolic environments
- Participate in the design of large and systematic proteomic experiments
- Integrate proteomics with genomic, biological and clinical data
- Develop new data analysis strategies together with mass spectrometry experts, experimental scientists and clinicians

■ What we're looking for

- PhD in bioinformatics, computational biology or a related field
- Experience with biological data analysis, particularly proteomics
- Strong statistical and quantitative skills, and an understanding of mass spectrometry
- Good programming skills in Python and/or R
- Collaborative mindset and the ability to work independently

■ Why join us

- Exceptional large-scale datasets and cutting-edge mass spectrometry
- Method development, quantitative analysis and biological discovery combined
- A highly collaborative, interdisciplinary environment with strong scientific independence and professional development opportunities

PhD position

Microbial proteomics / systems biology

Microbial cell biology and proteomic method development

In the Ralser lab, we are interested in the biology of commensal fungal microbes that occasionally become pathogens, particularly *Candida albicans*. We explore their proteome to find mechanisms of drug tolerance and new gene functions, and how these cells participate in microbial communities.

■ What you'll do

- Investigate fungal microbial cells and microbiomes using mass spectrometry-based proteomics
- Develop proteomic approaches to characterize thus far uncharacterized microbial genes
- Study how microbial interactions influence growth, competition and drug resistance
- Generate and analyse systematic datasets in an international, interdisciplinary team

■ What we're looking for

- Master's degree in microbiology, molecular biology, biochemistry or a related field
- Experience in microbiology, yeast biology and/or proteomics
- Strong interest in microbial interactions and systems biology
- Enthusiasm for quantitative, large-scale biology, and very good English

■ Why join us

- Work at the interface of microbiology, systems biology and cutting-edge proteomics
- Method development combined with biological discovery
- A highly collaborative, international research environment with structured PhD training and professional development opportunities

Apply by 25 September 2026



Questions: Prof. Dr. Markus Ralser
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Scan the code, or open
karriere.charite.de/stellenangebote/detail/8122

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