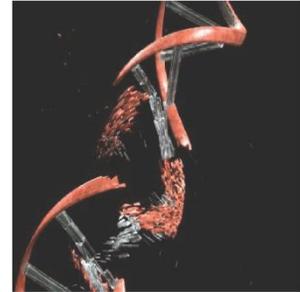


HelmholtzZentrum münchen

Deutsches Forschungszentrum für Gesundheit und Umwelt

Dr. Stephan Hamperl

Institute of Epigenetics and Stem Cells (IES)



Open PhD position

The Helmholtz Zentrum München, Germany, is member of one of the leading research associations in Europe - the Helmholtz Association of German Research Centers. The aim of our research is to proactively detect health risks involving humans and the environment, decoding the mechanisms of pathogenesis and developing concepts for prevention and therapy.

The Institute of Epigenetics and Stem Cells (IES) at the Helmholtz Zentrum München is seeking a

PhD candidate in “Chromosome dynamics and Genome stability”

One major aim of the newly established group is to understand how cells accurately duplicate and process their genetic information by coordinating the fundamental processes of replication and transcription. Eukaryotic DNA replication starts at multiple sites throughout the genome and is necessarily coordinated with other chromosomal processes including transcription, chromatin assembly and maturation, recombination and DNA repair. Notably, chromosomes provide the fundamental scaffold for all these dynamic and in part simultaneously occurring processes. How are these molecular activities coordinated on our genome? Can some of the complexes interfere with each other at certain regions of the genome? Our ultimate goal is to understand the genetic and epigenetic principles how these fundamental processes are regulated and coordinated to work together on the genome of eukaryotic cells.

We are an enthusiastic growing team and offer intensive training and mentoring. We use a broad spectrum of innovative approaches and techniques, including in vivo molecular imaging, cell biological, genetic and proteomic assays in yeast and human cells. Using these toolsets, we aim to identify the molecular players and characterize the sequence of events that allow these processes to occur simultaneously without major accidents on our chromosomes leading to DNA damage and genome instability, a hallmark of cancer and many human diseases.

The successful candidate will have access to leading-edge facilities and national as well as international collaborations, including training under the umbrella of the structured HELENA graduate school (<https://www.helmholtz-helena.de/>) with many excellent research, training and network opportunities, giving the opportunity to start a strong scientific career. The Institute is located in the heart of the Großhadern Campus of the LMU.

Payment is according to standard public service salary (TV EntgOBund). We give priority to severely disabled applicants with essentially equal qualifications.

Please send your application with relevant documents (CV, certificates, recommendation letters) as one merged PDF to Dr. Stephan Hamperl (e-mail: stephan.hamperl@helmholtz-muenchen.de).