

Institute of Stem Cell Research

As German Research Center for Environmental Health, Helmholtz Zentrum München pursues the goal of developing personalized medical approaches for the prevention and therapy of major common diseases such as diabetes mellitus and lung diseases. Helmholtz Zentrum München is a member of the Helmholtz Association, Germany's largest scientific organization.

The Institute for Stem Cell Research, Group leader Dr. Micha Drukker, head of Human Induced Pluripotent Stem (iPS) Cell Unit seeks to employ a talented and highly motivated

PhD Student - Biology of Human Induced Pluripotent Stem Cells m/f (2012/1552)

Job Description

- Specific aim of the PhD project conducted in the human iPS cell unit (Supervised by Dr. Micha Drukker) is modeling emergence of human developmental disease by generating iPS cells from patients affected by developmental syndromes.
- PhD candidate will produce iPS cell lines from patient samples, isolate developmental progenitors emerging from these lines and analyze molecular defects in signal transduction and transcription factors leading to disease. Techniques include: preparation of human induced pluripotent stem cells from patient samples, purification of human embryonic stem cell-derived progenitors through sophisticated cell sorting, gene expression analysis in single cells, application of novel single cell-level bioimaging and genetic manipulation (establishment of stem cell lines with fluorescent-lineage reporters).

Your Qualifications

- Above-average motivation
- Diploma or Masters in Biology or related subject, preclinical degree, or veterinarian degree
- A solid background in biology, highest scientific interest in embryogenesis or developmental and/or stem cell biology?
- Practical experience with biochemistry, molecular and cell biology is desirable?
- Good communication skills
- English knowledge is required

Our Offer

- Working in an innovative, well- equipped and scientifically stimulating surrounding
- Further training opportunities
- Initial short-term employment contract for three years with a standard public service salary (TVöD EG 13 50 %)

The Helmholtz Zentrum München as holder of the Bavarian Advancement of Women Prize and of the Total E-Quality Certificate is striving to increase the overall proportion of women on its staff and thus expressly urges qualified women to apply.

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Job offer

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German Research Center for Environmental Health

(Veröffentlichungsdatum: 26.06.2012)