The Institute of Genetics, research group of Prof. Sandra Hake, offers a

Doctoral Position (50 \%)

within the German Science Foundation (Deutsche Forschungsgemeinschaft)-funded collaborative research center TransRegio 81 (TRR81): "Chromatin changes in Differentiation and Malignancies, Project “Role of mammalian histone variants H3.3 and H2A.Z in differentiation and disease”. The position should be appointed as soon as possible. In agreement with the current legislation, the position is payed according to „Entgeltgruppe 13 Tarifvertrag Hessen (TV-H)“. The duration of the offered position until 30.06.2022.

Job Description: Within the framework of the TRR81, both projects will address the roles of different mammalian histone variants during stem cell differentiation processes and malignancies. One project will explore the role of the histone variant H3.3 in heterochromatin formation and maintenance during mouse stem cell differentiation, while the other project will investigate our recently discovered PWWP2A interactome and its influence on gene regulation. In both projects, mammalian cells will be genetically manipulated using the CRISPR-Cas9 system and functional cellular changes will be determined applying molecular biological (e.g. qPCR, ChIP-seq, RNA-seq), bioinformatics (e.g. NGS analyses), biochemical (e.g. immunoprecipitations, immunoblotting) and cell biological (e.g. immunofluorescence) methods.

Prerequisites for both projects: You have completed a scientific university course (Diploma or Master of Science degree) in molecular biology, biochemistry or biology. Experience in at least one of the methods mentioned above is expected. In-depth knowledge of chromatin biology and epigenetics is favorable. Personal initiative, creativity, team spirit, good English language skills and a profound background in science are mandatory; German language skills are desirable.

The Justus-Liebig University Giessen strongly encourages female scientists to apply for this position. As a family-friendly higher education institution, the Justus-Liebig-University Giessen particularly welcomes applicants with children.

Please send your application stating the application number 104/29110/08 with the usual documents* until 04.01.2019, to Prof. Sandra Hake, JLU Giessen, Institute for Genetics, Heinrich-Buff-Ring 58-62, 35392 Giessen, GERMANY

For further information please contact: Sandra.hake@gen.bio.uni-giessen.de

Applicants with disabilities but otherwise equal qualifications will be preferred. Please do not send original documents as these will not be returned after end of the selection procedure.

* Required documents: curriculum vitae, references, certificates (English or German), letter of motivation.