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The Helmholtz Zentrum München (HMGU), German Research Center for Environmental Health, has the mission to discover personalized medical solutions for the prevention and therapy of environmentally triggered diseases and strives to promote a healthier society in this rapidly changing world. The Institute of Experimental Genetics (IEG) is part of the HMGU, member of the Helmholtz Diabetes Center (HDC), and partner of the German Center for Diabetes Research (DZD), located on the Neuherberg Campus. Our institute houses the German Mouse Clinic (GMC) and aims to further understand the mechanisms that underlie the etiology of human diseases. **Metabolic diseases** with focus on **diabetes** are key areas of research.

The working group 'Functional Genetics' recently characterized some novel diabetic mouse models. To further understand the molecular pathways and pathophysiological events that lead to the specific diabetic phenotype we offer the following

Project for a Research Internship and/or Master Thesis

- Characterization of diabetic kidney disease (DKD) in mouse models (Research Internship and/or Master Thesis)

General methods:

- Histology: immunofluorescent staining + (confocal) microscopy + image processing
- mRNA and protein extraction from various murine tissues
- Western Blots
- qPCR experiments
- Analysis of parameters measured in mouse urine

Your qualifications

- High scientific interest
- High motivation to solve complex scientific questions
- Willingness to work with laboratory mice (experience not required but beneficial)
- Background knowledge on above mentioned techniques beneficial
- Good communication and presenting skills in English (your thesis will also be written in English)

Our offer

- Positive working atmosphere in a group with broad expertise
- Training for work with laboratory mice (if required)
- State-of-the-art technologies
- Direct and interactive supervision
- Weekly seminars on various diabetes related topics

For further information, please contact:

Please send inquiries with detailed CV (focus on previous lab and method experience) to

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