

RenalToolBox – Project Description

ESR Number:	ESR9	Host:	UHEI
Project Title:	Optimise and apply novel clearing-based technologies for the analysis of intact kidneys and other organs in order to evaluate the safety and efficacy of RMTs		
Research Field:	Medical Sciences		
Contact Person:	Prof. Dr. Norbert Gretz		
Academic Supervisor(s):	Prof. Dr. Norbert Gretz		
Research Group / Department:	Medical Research Center		
Group's website:	https://www.umm.uni-heidelberg.de/inst/zmf/index_e.html		
Full Address:	Zentrum für Medizinische Forschung Medical Faculty Mannheim Heidelberg University Theodor-Kutzer-Ufer 1-3 68167 Mannheim, Germany		
Expected Start Date:	01. April 2019 or earlier		
Description:			
<p>The RenalToolBox is an EU-funded ITN that aims to develop novel tools and technologies to assess the safety and efficacy of cell-based regenerative medicine therapies for kidney disease. You will join a team of 15 Early Career Researchers (ESR) working across 10 different institutions towards this goal.</p> <p>In this position you will be employed by UHEI (University of Heidelberg) and enrolled as a PhD student at the University of Heidelberg, the oldest University of Germany. Your role in this project will be to optimise and apply novel tissue clearing-based technologies for the analysis of intact kidneys and other organs in order to evaluate the safety and efficacy of RMTs. More specifically, you will:</p> <ul style="list-style-type: none"> - develop new approaches for optical tissue clearing and tissue expansion - learn using confocal and light sheet microscopes (Leica SP8) - learn to handle big data (1 mouse kidney is about 600GB to 5TB) - analyse the data on a high performance cluster - collaborate with scientists developing in vivo models. <p>The post holder will be employed on a fixed term (36-month contract) and enrolled as a PhD student at the University of Heidelberg. The candidate will be expected to spend periods of time with other partners in the consortium.</p> <p>More information about this consortium and the project can be found in www.renaltoolbox.org.</p>			

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Required Skills / Qualifications:

Essential:

- BSc and MSC degree in a relevant subject (biomedical sciences, bioengineering, molecular biology or other related subjects)
- Excellent oral and written communication skills with well-developed interpersonal skills.
- Ability to work effectively and collaboratively within a multidisciplinary team.
- Enthusiastic, self-motivated individual, willing to take part in personal skills training, international travel and public outreach activities.
- Demonstrated commitment to high-quality research.

Desirable:

- Research experience in using confocal and or light sheet microscopy.

The candidate is also required to fulfil the research experience and transnational mobility requirements outlined in <https://renaltoolbox.org/job-positions/>

Other requirements:

N/A