

## RenalToolBox – Project Description

<b>ESR Number:</b>	ESR4	<b>Host:</b>	UU
<b>Project Title:</b>	Development of a panel of novel biomarkers to assess kidney disease progression/regression		
<b>Research Field:</b>	Medical Sciences		
<b>Contact Person:</b>	Prof. Roos Masereeuw, PhD		
<b>Academic Supervisor(s):</b>	Manoe Janssen, PhD Karin Gerritsen, MD PhD		
<b>Research Group / Department:</b>	Div. Pharmacology		
<b>Group's website:</b>	<a href="https://www.youtube.com/watch?v=Wdyzo7avNrs">https://www.youtube.com/watch?v=Wdyzo7avNrs</a>		
<b>Full Address:</b>	Utrecht Institute for Pharmaceutical Sciences Universiteitsweg 99 3584 CG Utrecht The Netherlands		
<b>Expected Start Date:</b>	01 February 2019		
<b>Description:</b>			
<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 the University of Utrecht (UU) and based in the Division of Pharmacology at the Utrecht Institute for Pharmaceutical Sciences (UIPS) of the Science Faculty, and affiliated to the Department of Nephrology &amp; Hypertension of the University Medical Center Utrecht (UMCU). Your role in this project will be to will develop a panel of urinary biomarkers that will be able to evaluate the processes of kidney disease progression and regeneration/repair, including the response to mesenchymal stem cells from different sources. More specifically, you will:</p> <p>(i) Implement a rodent ischemia-reperfusion injury (IRI) model; (ii) Assess efficacy of regenerative medicine therapies using already available transcutaneous device for measuring FITC-Sinistrin clearance (developed by University of Heidelberg and now commercially available); (iii) define a panel of disease biomarkers that are reproducible with low inter-laboratory variations; (iv) validate biomarkers in vitro and in vivo in rodent urine after regenerative medicine therapies administration.</p>			
<b>Required Skills / Qualifications:</b>			
<p>You hold a Master's degree in pharmaceutical, (bio-)medical or life sciences or related area and thrive in a multidisciplinary research environment. You have a strong background in renal physiology and experience with animal research. You are ambitious, well organised and have excellent communication skills. You are verbally and written fluent in English and have the ability to work effectively and collaboratively. You are an enthusiastic, self-motivated individual, who is willing to take part in personal skills training, international travel and public outreach activities.</p>			

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You have demonstrated commitment to high-quality research.

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

<b>Other requirements:</b>
N/A