

## RenalToolBox – Project Description

<b>ESR Number:</b>	ESR3	<b>Host:</b>	UU
<b>Project Title:</b>	Evaluation of tracers for monitoring renal function using in vitro culture systems		
<b>Research Field:</b>	Biological Sciences		
<b>Contact Person:</b>	Prof. Roos Masereeuw, PhD		
<b>Academic Supervisor(s):</b>	Manoe Janssen, PhD Silvia Mihaila, 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 Advanced In vitro Models (U-AIM)Hub within the framework of Utrecht Life Sciences (ULS). Your role in this project will be to characterise newly developed tracers for monitoring kidney function for their disposition using a newly developed kidney-on-a-chip device. More specifically, you will:</p> <p>(i) Improve renal epithelial cell-based bioartificial tubular device by including peritubular vasculature; use this to determine tracer (ii) uptake; (iii) secretion; (iv) toxicity in relation to standard tracers such as FITC-Sinistrin and para-amino-hippurate; (v) Implement microfluidics-based co-culture system for evaluating regenerative medicine therapies in vitro, including mesenchymal stem cells from different sources.</p> <p>The post holder will be employed on a fixed term (36-month contract) and enrolled as a PhD student at the University of Utrecht. 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 <a href="http://www.renaltoolbox.org">www.renaltoolbox.org</a>.</p>			

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<b>Required Skills / Qualifications:</b>
<p>You have a Master in pharmaceutical, bioengineering or life sciences, and affinity with pharmacological/toxicological research. You have experience with advanced cell culturing, including organ-on-chip technology. 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 within a multidisciplinary team. You are an enthusiastic, self-motivated individual, who is willing to take part in personal skills training, international travel and public outreach activities. You have demonstrated commitment to high-quality research.</p> <p>The candidate is also required to fulfil the research experience and transnational mobility requirements outlined in <a href="https://renaltoolbox.org/job-positions/">https://renaltoolbox.org/job-positions/</a></p>
<b>Other requirements:</b>
N/A