



Within the EU project “Identification and Management of Patients at Risk – Outcome and Vascular Events in Peritoneal Dialysis” (IMPROVE-PD), the Research Group of Pediatric Nephrology of the Heidelberg University will host an

Early Stage Researcher in Biomedical Science

Description of the ESR project
<p>Objectives: The ESR will be involved in digital analyses of peritoneal and arterial specimens from healthy, uremic and peritoneal dialysis treated patients, and in analyses of molecular mechanisms by whole exome profiling, proteomics, miRNA sequencing, and (omental) metabolomics. Findings will be related to treatment modalities, clinical disease spectrum, and cardiovascular and inflammatory complications. The ESR will then focus on validation of respective key findings in independent cohorts, and on cross-validation in various experimental settings. The human <i>ex vivo</i> findings will also serve for validation of experimental data obtained in other groups of the consortium and provide molecular patterns to interact with by development of novel PD fluids.</p> <p>Expected Results: Molecular characterization/pathway identification of uremia, and PD induced tissue damage and vascular disease. We provide a data warehouse which will allow for validation of present and future experimental PD studies in humans and to define pathomechanisms, novel PD fluids should interfere with locally and systemically to reduce cardiovascular disease (CVD).</p>
About the Group
<p>The Pediatric Nephrology Group and cooperating partners offer all state of the art research and training facilities; unique training and networking opportunities are provided. The group coordinates the Int. Pediatric Dialysis Network, the Int. Pediatric PD Biobank, and the ESCAPE, 4C, PodoNet and EURenOmics consortia. The central bio repository holds 44000 aliquots from 3000 children with renal diseases and 600 peritoneal specimens. Access to respective adult biobanks is available in Heidelberg and in cooperating centres.</p>
Candidate description
<p>The ESR will be placed in a great interdisciplinary network of PhD and postdoc fellows in Heidelberg and cooperating centres. We seek for a colleague interested in translational research incl. in-depth molecular (tissue) analyses and experimental PD research addressing clinically relevant questions, and who shares our enthusiasm to advance skills and knowledge in the field of PD and CVD.</p>
Required skills
<ul style="list-style-type: none"> - Knowledge of standard molecular biology methods and interest in omics technology. - MSc. degree or equivalent in natural sciences. Previous medical training is not required, but interest in the field of chronic kidney disease, CVD and dialysis. MD with knowledge of standard molecular biology methods and interest in experimental research are also welcome. - International cooperations require flexibility and interest in interdisciplinary work. - Proficiency in scientific English and first experience in writing scientific manuscripts are appreciated.
Application
<p>Candidates can submit their application forms to applications@improvepd.eu. For more detailed information on the project and the application procedure please visit the IMPROVE-PD website (www.improvepd.eu) or contact ClausPeter.Schmitt@med.uni-heidelberg.de or Maria.Bartosova@med.uni-heidelberg.de. Starting date is flexible but not later than 1.1.2020. The project is limited to 36 months but extension of the employment is intended.</p> <p>Please refrain from using application folders and do not send original documents, as these are not returned but destroyed after completion of the procedure in accordance with data protection. We stand for equal opportunities. Handicapped applicants will be given preference if equally qualified.</p>



Eligible candidates

Early-Stage Researchers can be from **any nationality**.

They must, at the date of recruitment by the hosting organisation (expected in October-November 2019), be in the **first 4 years of their research careers** (full-time equivalent research experience*) and have **not been awarded a doctoral degree**.

Mobility Rule: researchers must not have resided or carried out their main activity (work, studies, etc.) in the country of the recruiting organisation for more than **12 months** in the **3 years immediately before** the recruitment date.

Compulsory national service, short stays such as holidays, and time spent as part of a procedure for obtaining refugee status under the Geneva Convention are not taken into account.

*Full-Time Equivalent Research Experience is measured from the date when the researcher obtained the degree entitling him/her to embark on a doctorate (either in the country in which the degree was obtained or in the country in which the researcher is recruited, even if a doctorate was never started or envisaged).