

Postdoctoral position at the Tharaux Kidney Lab (Inserm, Paris, France)

Research Project

Overview We are looking for a motivated postdoc to join the Tharaux-Lenoir Kidney Lab at the Paris Cardiovascular Centre - PARCC, Paris, France. The general interest of our lab is to understand how kidney and vascular cells resist immune and metabolic stresses. Our work focuses on intercellular communications in diseases with systematic comparisons of human and mouse tissues and cells to identify the major cellular pathways contributing to kidney destruction (*Bensaada I et al. Kidney Int 2021, Lazareth H et al. Nat Commun 2019, Henrique C et al. Nat Commun 2017, Luque Y et al. J Am Soc Nephrol 2017*). Such approaches deciphering mechanisms of cellular adaptation that underlie kidney damage control in response to auto-immunity or diabetes, integrating both stress and damage responses, could delineate novel complementary therapies. Our lab provides a stimulating environment of curiosity, enthusiasm, fun, and ambition to perform top-tier science. For more information on the lab, visit <http://parcc.inserm.fr/research-teams/team/tharaux-camerer/>

Project The PROTECT-Fi project aims at uncovering a novel connection between cell metabolism and sterile inflammation in renal epithelial cells that will be investigated using the same functional and molecular imaging and analyses of patients' tissues and mouse models. Using histology, highly multiplexed in situ imaging mass cytometry, RNA seq and lipidomics, we will spatially compare patterns of epithelial, fibroblasts and leukocyte subsets associated with disease trajectories and manipulate pathways to repress inflammation and fibrosis to prevent or treat kidney failure.

Skills The Fellow will work on projects such as multimodal joint learning from biological and imaging data. Candidates with experience in biochemistry, cell and molecular biology, signal transduction, cytoskeletal dynamics, and/or animal models will be given preference. Knowledge of tissue imaging or RNA sequencing, or proteomics analyses and bioinformatics is a plus. Attention to detail and good communication and interpersonal skills is critical, as well as oral and written communication skills in English and the ability to work as a part of an interdisciplinary team.

Location

Team: The Paris Cardiovascular Centre (PARCC) is an international research unit focusing on human pathophysiology, epidemiology, genomics and personalized medicine at the Institut National de la Santé et de la Recherche Médicale (INSERM) and the University of Paris - a leading French university with a solid commitment to life science research. The PARCC is located downtown Paris in a nice, safe area with convenient public transportations and biking paths.

Contract

Type Fixed-term contract (CDD)

Length of contract One-year contract renewable for 3 years with a possibility of further extension.
Salary will be commensurate to skills and previous experience and in line with EU standards.

Beginning The position is to be filled by December 2021.

Application

To apply, please send together with your CV, a list of publications, a cover letter highlighting previous scientific accomplishments and the names of 2 references to

Pierre-Louis Tharaux, M.D., PhD. pierre-louis.tharaux@inserm.fr