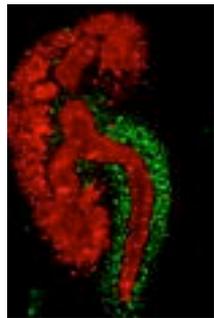


In the framework of the RENALTRACT Innovative Training Network (n°642937) – a Marie Skłodowska-Curie Action of the Horizon 2020 program of the European Community, we invite applications of highly motivated individuals for 12 Early Stage Researcher (PhD) positions starting from September 1st 2015.

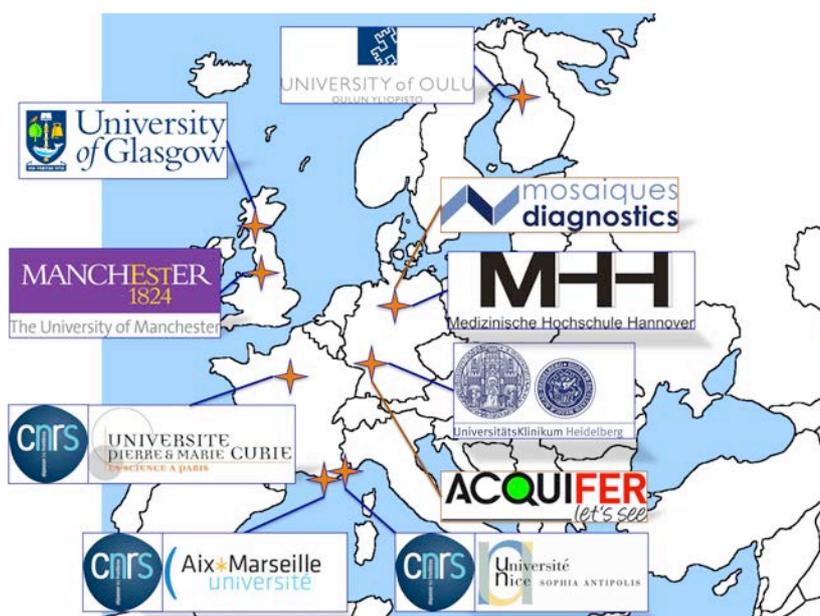
The **RENALTRACT training program** is a cross-disciplinary collaborative research effort focusing on the complex embryonic programs that govern the formation and assembly of the renal tract system and their alteration leading to renal tract malformations. More specifically, the program **aims** to advance our understanding on:



- **The normal development and physiology of the renal tract.** We will employ a range of animal model systems in a multidisciplinary team approach with laboratories working in disciplines as diverse as developmental biology, renal physiology, proteomics and clinical medicine.
- **The nature of the disease-causing mechanisms of this organ system.** We will combine state-of-the-art methodology with high-throughput screening to discover the molecular basis of congenital diseases of the renal tract and identify and validate novel biomarkers.
- **To establish novel therapeutic options.** This shall be achieved by establishing a **comprehensive database** of genes and molecules associated with renal tract malformations in animal models and humans, performing cross-species analyses to identify shared molecular pathways of normal and abnormal kidney development and developing an **integrative bioinformatic model of kidney development**, which will allow us to predict the impact of individual or combined alterations in critical genetic pathways on renal tract phenotypes.

To achieve the goals of this exciting program we are inviting applications for **12 PhD studentships**. Research projects will be carried out in internationally renowned research teams and will cover a large spectrum of approaches, from the molecule to clinical medicine. Through them, the ESRs will acquire skills in order to meet the challenges of working on animal models and to provide new insight into renal tract diseases. A range of training activities including courses, meetings and workshops will accompany the state of the art research projects. Short-term internships at- and/or interactions with- the industrial partners will provide an understanding of the impact of research for the private sector. The scientific training will be further complemented by personal and career development courses (**communication, research management, symposium organisation**, etc.) that will provide the ESRs with essential transferable skills.

The **RENALTRACT Ph.D. projects** will be performed within a network composed by 8 leading **academic centers** in Life Sciences and 2 **private companies** in Europe:



The **RENALTRACT** network is completed by **3** other private-sector associated partners, which investigate various fields as the production and sale of imaging instruments (**NIKON**), the dissemination of knowledge on scientific journalism & communication, ethics & legal issues in science jobs, counselling, etc. (**Atelier des Jours à venir & MyScienceWork**).

Deadline for applications: July 30th 2015.

A complete description of all 12 RENALTRACT Ph.D. positions and training program, application requirements, and online application forms can be found [here](#)

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