EU Marie SKLODOWSKA-Curie European Industrial Doctorate
MIMIC

A European Research Training Network for the development of 3D organ-on-a-chip models

Topic: Mimicking organs on chips for high throughput drug toxicity and efficacy screening and basic research

Call: HORIZON 2020-MSCA-ITN-2015
Proposal Number: 674983

Project title: Identification of potential drug targets for ulcerative colitis using high throughput screenings

Type of position: Early Stage Researcher (ESR)/ PhD position

Short description:
Ulcerative colitis (UC) is, similar to Crohn’s disease, a common inflammatory bowel disease. In Europe this devastating disease affects over a million people. The etiology is not entirely clear although a clear genetic component has been elucidated. This project aims to identify genes that contribute to the development of UC and could serve as potential drug targets. Conventional cell culture assays as well as organ on chip technology will be applied.

The aims of this project are: 1) to set up a cellular assay mimicking ulcerative colitis 2) to identify novel drug targets of inflammatory bowel disease. 3) to validate potential drug targets 4) to characterize targets using gut on chips models.

MIMIC is a collaboration between Galapagos B.V. (Leiden, the Netherlands), Mimetas B.V. (Leiden), and the University of Sheffield. The ESR will be trained at all three locations of which 20 months at Galapagos and enrolled in the PhD programme of the University of Sheffield.

Techniques: Robotics and high throughput screening, Adenoviral transfections, siRNA knockdown, CRISPR technology, primary cell culture of epithelial cells and immune cells, analysis of large data collections, ISO quality standards, IP-relevant lab records.

Literature:
**Job Requirements:** BSc or MSc in Life Sciences and relevant experimental background in cell biology

**Host Institute:**
Galapagos B.V.
Zernikedreef 16
2333 CL Leiden
The Netherlands

Supervisor: Richard A.J. Janssen, PhD
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**Eligibility:** To this position applies a mobility rule. The respective candidate must not have worked for more than 12 months in the Netherlands within the last three years. Furthermore, the candidate needs to be in his/her first four years of his/her research career. The four years are counted from the date a degree was obtained which formally entitles to embark on a doctorate in the country either in the country in which the degree was obtained or in the country in which the research training is provided

**Starting date:** 01.01.2016 (or later)

**Duration:** 36 months

**Salary:** According to the Marie Curie-ITN rules

**How to apply:**
Please send your application (preferably by e-mail) to:

Human resources
Galapagos BV
PO Box 127
2300 AC Leiden
The Netherlands
Tel: +31 71 7506700
Fax: +31 71 7506701
jobs_nl@glpg.com

Deadline for application: 31-01-2015
For further information: http://www.sheffield.ac.uk/itn-mimic