Single-Cell Human Genomics

POSITION TITLE: RESEARCH ASSISTANT

RESEARCH PROJECT TITLE: SINGLE-CELL HUMAN GENOMICS

FACULTY NAME & TITLE: YOUSSEF IDAGHDOUR, ASSISTANT PROFESSOR OF BIOLOGY

RESEARCH PROJECT DESCRIPTION

An emerging and promising trend in the field of human genetics is to perform biological experiments at single cell resolution. Applications such as single-cell whole-genome sequencing, RNA sequencing and epigenetic profiling open the door to understanding biology at the level of individual cell. Recently, our laboratory has established a single-cell genomics facility to study cellular responses to various environmental stimuli with a focus on cancer, cardio-metabolic traits and infection. The successful applicant will use single-cell genomic methodologies coupled with next-generation sequencing approaches and focus on primary human cells. The successful applicant will be trained in genomic techniques and is expected to take a lead role in setting up and conducting the project and work as team in our well-equipped facilities. There is scope for the successful candidate to eventually pursue his/her own research interests within the area of human genetics.

RESPONSIBILITIES OF THE POSITION

• Take a lead role in the experimental part of the project
• Collect and process samples for genomic work
• Laboratory preparation and processing of samples for single-cell profiling
• Quality control and processing of the data with other members of the lab
• Take part of the experimental and analytical training sessions in the lab
• Work in team environment and write internal reports
• Weekly meetings with the PI and Laboratory Manager

ESSENTIAL QUALIFICATIONS:

BSc in Biology with experience in basic molecular techniques

PREFERRED EXPERIENCE / SKILLS:

MSc in Genetic or Molecular Biology. Experience in PCR and cell culture.
APPLICANTS TO PROVIDE:

1. Statement of interest in the position
2. Transcript of degree(s)
3. CV
4. Two letters of recommendation