UNIVERSITEIT GENT

Vacancy:

DATA ANALYSIS METHODS FOR HIGHER ORDER MULTIPLEXING IN DIGITAL PCR

Job description

The Ghent University Digital PCR Consortium (http://dpcr.ugent.be) is a multidisciplinary collaboration of four Ghent University research groups who have extensive expertise in the digital polymerase chain reaction (dPCR). This technology enables unparalleled absolute quantification of multiple nucleic acid targets in a single reaction, but there is an unmet need for tools to design such assays and perform the subsequent automated data analysis.

We are looking for a doctoral fellow who will be working on an interdisciplinary project to develop a bioinformatics tool to perform data analysis of digital PCR output. This will allow the design of assays for various applications, such as cancer, virology and basic research. You will have access to the newest dPCR instruments and to relevant biological samples from human and veterinary patients.

The researchers involved are Prof. Ward De Spiegelaere, Prof. Olivier Thas, Dr. Wim Trypsteen and Prof. Jo Vandesompele. More information on our consortium can be found on http://dpcr.ugent.be

We offer

- A full time PhD position at Ghent University for 4 years
- A multidisciplinary environment across different Ghent University faculties, including the faculties of Medicine and Health sciences, Veterinary Medicine and Sciences.
- The possibility to work on advanced data analysis methodology for state-of-the-art digital PCR technology and use the methods for various applications through national and international collaborations.
- Opportunity to present your work at leading international conferences
- Opportunity to help in the organization and teaching of international specialist courses on digital PCR.

We are looking for

You are holding a master degree in Statistics, Bioinformatics, Bio-engineering or equivalent

Furthermore, you have:

- A strong interest in statistical data analysis
- An interest in interdisciplinary research
- An interest in programming languages such as R, Python, … (some experience is a plus)
- Good interpersonal skills
- Fluency in spoken and written English

Interested? Please mail your CV and motivation letter to Ward.DeSpiegelaere@UGent.be