PhD position (IWT fellowship)

Clinical implementation and validation of a new prognostic tool for sepsis

Latest application date	July 31, 2013
Where	Department for Molecular Biomedical Research, Ghent, Belgium
	Molecular Pathophysiology and Experimental Therapy unit
Contact	Benjamin Vandendriessche
	benjamin.vandendriessche@dmbr.ugent.be
Promoters	Prof. Peter Brouckaert and Dr. Anje Cauwels

Description

We developed a new tool for extracting prognostic information from blood pressure or heart rate variability data, known to be altered in critically ill patients. The method was validated in simple mouse models of systemic inflammation via implantable telemetry and is now ready to be tested both in more complex animal models of sepsis, as well as in patients. The latter will be done in close collaboration with the intensive care unit of the Ghent University hospital (UZGent). The candidate will be responsible for validating the method in (surgical) animal models of sepsis, improving on the current implementation of data processing, coordinating the effort to obtain annotated clinical data, as well as examining the translational possibilities.

Profile

We are looking for a highly motivated MSc (or equivalent degree) in Biomedical Engineering/Sciences, Bio-informatics, Bio-engineering, Biotechnology, Biochemistry, or similar. The candidate must apply for a personal PhD grant (IWT). Assistance and training for the grant application will be provided. Fluency in spoken and written English is required.

Being comfortable with computers and mathematics, as well as dealing with large amounts of data is a requirement. Experience with Matlab and/or Linux, processing of physiological data, and lab animal experimentation are assets.

Apply

Send CV and motivation letter to benjamin.vandendriessche@dmbr.ugent.be