

The Faculty of Sciences, research group Bio-Physics of Hasselt University seeks a (m/f)

post-doctoral researcher in advanced fluorescence microscopy

Background

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Task description

Within a joint project with Prof. K. Braeckmans (UGhent) and Prof. J. Hofkens (KULeuven) properties of nanomedicines will be evaluated for delivering nucleic acids to the Retinal Pigment Epithelium (RPE), the outer blood-retinal barrier in the eye beneath the neural retina. To address this issue several advanced fluorescence microscopy methods will be extended and developed. The nanomedicine internal structure will be studied by the newest super-resolution microscopy techniques such as STORM and STED. The transport and stability of nanomedicines in vitreous gel, neural retina and inside living RPE cells will be studied by a newly developed correlation spectroscopy method and dual color 3-D SPT. The knowledge gained in this project from the various microscopy methods will enable a rational and efficient development of nanomedicines for nucleic acid therapy.

Profile

- Junior post-doctoral researcher in advanced fluorescence microscopy;
- Profound experience in quantitative, advanced microfluorimetric methods;
- Experience with cell biology is a benefit;
- Willingness to perform research in the different laboratories involved in the project;
- Good knowledge of English.

Diploma

Candidates have a doctoral degree in biomedical sciences, biology, medical sciences, physics, bio-engineering, chemistry or a related discipline with profound experience in the area of advanced microfluorimetric techniques. Candidates who are in the final stage of their PhD and will defend their thesis within an acceptable period within 2011 will also be considered for the position.

Employment

Position for two years.

Further information

Content job responsibilities:

Prof. dr. Marcel AMELOOT, +32-11-269233, marcel.ameloot@uhasselt.be

Content terms of employment and selection procedure:

De heer Yves SOEN, +32-11-268085, yves.soen@uhasselt.be

Application

Applicants must use the official application forms which can be downloaded here <http://www.uhasselt.be/download/APengelsUH.doc>.

The completed application forms must reach the above mentioned address no later than **25 August 2011**.

Application by e-mail will only be taken into consideration when sent to the following address: jobs@uhasselt.be.

Selection procedure

Preselection on the basis of CV. Interview with the selected candidates.