St. Anne's University Hospital is recruiting, as part of International Clinical Research Center activities (FNUSA-ICRC), candidates for the following position:

Job Title

PhD position in "high resolution analysis of shuttling proteins during stem cell differentiation"

Desired start date: 01/05/2016

Form of employment: Full time contract, fixed term for 12 months-temporary

Job description: PhD student

We seek a highly motivated individual to join an EU-funded project within the Center for Translational Medicine (CTM), International Clinical Research Center (FNUSA-ICRC). The working activities involve the culture and differentiation of adult and pluripotent stem cells, the analysis of gene and protein expression, the exploitation of high resolution and super-resolution microscopy to investigate the localization of mechanosensor proteins. The activities also include gain and loss-of-function experiments and live confocal microscopy imaging.

The position is offered as part of H2020-MSCA-RISE-2015 project NANOSUPREMI. The project s developed in collaboration with the University of Melbourne (Australia), the University of California Santa Barbara (USA) and Italian Institute of Technology (Italy). Therefore the successful candidate will perform the research activities abroad for a significant amount of time (6 months at least).

ICRC is a joint research centre of St. Anne´s University Hospital in Brno and Mayo Clinic in Rochester, Minnesota (USA) and links together pre-clinical basic research (e.g. in stem cell biology, cancer biology etc.) with clinical research (for more info see http://www.fnusa-icrc.org/en/). Formerly known as Integrated Center for Cell Therapy and Regenerative Medicine (ICCT), CTM is headed by Dr. Giancarlo Forte and develops basic and pre-clinical research in the field of aging-related diseases (www.fnusa-icct.com). The advertised position is meant for a post-graduate student in the early stage of his/her career.

Expertise:

- completion of Master Degree in Biological Sciences, Biotechnology, Industrial Biotechnology or similar.

- good knowledge of cellular biology and at least basic understanding of the mechanotransduction processes.

- familiarity with stem cell culture is a plus.

- interest in developing a solid, competitive research program in stem cell mechanobiology.

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This project is funded by the Seventh Framework Programme of the European Union

Contents of work: The successful candidate will be working in an international, competitive context and will work under the mentorship of experts in the field of stem cell biology, cell-matrix interaction and extracellular matrix remodeling. A direct connection to disease-relevant conditions with the possibility to work with patient samples will be ensured by the tight interaction existing with the clinical departments of St. Anne's University Hospital.

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Prerequisites for successful role performance

The applicant should have the will to acquire a strong expertise in adult and pluripotent stem cell biology and to apply interdisciplinary approaches to pursue the goal.
Being already familiar with cell-cell, cell-ECM interaction/communication and/or protein-protein interaction would represent a benefit.
The specific requirements on the applicant are as follows:

- Previous experience with cell culture, methods of molecular biology, and advanced microscopy
- Good level of communication in English language (verbal and written)
- Computer ability (MS office, image analysis)

Professional requirements:

- Ability to comply with laboratory rules
- Ability to team-play in an international context

Personal characteristics:

Successful candidates should be highly motivated and curious, demonstrate the ability to develop independent thinking, and be prepared to work in a highly competitive environment.

The candidates should e-mail their Curriculum Vitae and Letter of Motivation to Mr. Ales Pacner (ales.pacner@fnusa.cz) by April 15th at the latest. Applications will be processed in two steps. The first step will focus on the excellence of candidates. Those shortlisted will be invited for an interview.

Please email your application in electronic form, as a cover letter accompanied by a resume indicating details of your existing professional experience,

By responding to this invitation and/or sending your CV and any other personal materials to St. Anne's University Hospital, you consent to the collection, processing and storage of your personal data in accordance with Act No. 101/2000 Coll., the protection of personal data. You are providing St. Anne's University Hospital with these data solely for the purpose of mediating employment, the period however being no longer than one year from submitting. Should you not reclaim the materials submitted by you, they will be discarded after the period has expired.

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