



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

The Center of Biomedical Research (OPVK CZ.1.07/2.3.00/30.0025), Institute of Physiology, Academy of Sciences, Prague, Czech Republic is seeking applicant for postdoctoral position (starting November 1, 2013) **with an excellent ability and strong motivation to lead research on thermosensitive TRP channels.**

EU-funded, possibility to proceed research in the new biotechnical and biomedical research centre BIOCEV in Prague (see <http://www.biocev.eu/>). The position includes teaching of undergraduate students.

### **General conditions for the applicants:**

**Duration:** November 1, 2013 - May 31, 2015

**Salary:** 50 000 CZK per month, startup money to cover consumables and travel money for training in cooperating laboratory during the period.

#### **Requirements:**

Suitable candidate should have an appropriate experience in molecular biology, electrophysiology, cellular physiology, biochemistry, as well as working knowledge in signal transduction, more desirably TRP ion channels and calcium signaling in primary nociceptive neurones. The successful applicant will apply state-of-the-art electrophysiological, molecular biology and fluorescence-based tools to investigate the activation of TRP channels. The applicant is expected to have strong desire to understand basic science, and to perform mechanistic studies. The position requires experience in electrophysiological techniques, preferably patch clamp. Experience with thermally-gated ion channels is an advantage. Experience in any of the following techniques is particularly appreciated: Ca<sup>2+</sup> imaging, single-channel electrophysiology, molecular biology, dorsal root and/or trigeminal ganglion cell preparation, neuronal cell transfection. For more information, visit the Vlachova group's web-site: [http://www2.biomed.cas.cz/d331/eng/nocicepce\\_eng/nocicept\\_eng.html](http://www2.biomed.cas.cz/d331/eng/nocicepce_eng/nocicept_eng.html).

- PhD in biomedical/physiological sciences or related field, PhD defense after April 2008
- Strong proficiency in electrophysiology, cellular physiology, as well as working knowledge in signal transduction, more desirably ion channels and calcium signaling in primary nociceptive neurones
- Good track record of scientific publications in international journals
- Experience of working with recombinant ion channels expressed in cell lines and with molecular biology and/or biochemistry is desirable
- Other important qualities of the appointee will be, motivation, enthusiasm, flexibility, willingness to learn, and the ability to work and interact with others in a supportive research group
- Experience with neuronal cell transfection and calcium or FRET imaging are considered a distinct advantage.

#### **Major research duties and responsibilities for this position:**

- Execution of TOP level research using multi-disciplinary approaches
- Maintenance of cell lines necessary for the experiments
- Advanced electrophysiology to study cell biological aspects of TRP channels
- Data analysis and interpretation
- Contribution towards preparation and submission of manuscripts
- Twice per year – Participate in organizing a 5-day tutoring package for undergraduate students

The Department of Cellular Neurophysiology has a long-standing tradition in physiology and build up a substantial know-how and infrastructure in the field of molecular and cellular physiology of ion channels. The department is housed in the Institute of Physiology (<http://www.biomed.cas.cz/fgu/en/index.php>), which integrates diverse scientific expertises in molecular and physiological science and possibility to proceed research research in the new



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biotechnical and biomedical research centre BIOCEV <http://www.biocev.eu/> for the advancement of innovation in translational research.

#### **Application:**

The application in English should include a cover letter summarizing the applicants' career, past research accomplishments, statement of motivation, and research interests (1-2 pages), CV and a list of publications, copies of certificates and grades, and contact information for two references. The entire application should be sent as one single PDF file (applicant name.pdf) to Viktorie Vlachova ([vlachova@biomed.cas.cz](mailto:vlachova@biomed.cas.cz) and [cbv@biomed.cas.cz](mailto:cbv@biomed.cas.cz)) **before August 23, 2013.**