



**Ústav  
experimentální  
medicíny AV ČR, v.v.i.**

EU Centre of Excellence

1. **Job information** : Post-doctoral position in Prague, Czech Republic
2. **Closing date** : 15 June 2012
3. **Employment start date** : 01 October 2012
4. **Contract length** : 30 months
5. **Institution** : Institute of Experimental Medicine AS CR (IEM AS CR), Videnska 1083, Prague 4, 142 00, Czech Republic, <http://www.iem.cas.cz>
6. **Department** : Department of Neuroscience
7. **Contact information** : Prof. Eva Sykova, M.D., Ph.D., D.Sc, Director, Institute of Experimental Medicine AS CR (IEM), [sykova@biomed.cas.cz](mailto:sykova@biomed.cas.cz), tel. +420 241 062 204, (scientific information) or Mr. Jan Proksik, [proksik@biomed.cas.cz](mailto:proksik@biomed.cas.cz), tel. +420 296 443 632 (technical /administrative information)
8. **Job description** :

We look for two post-doctoral candidates for stem cell therapy and tissue engineering (TE) to work on projects related to the IEM's current research. The research areas are studies of neurodegenerative diseases, e.g. ALS, Alzheimer's disease, spinal cord injury or stroke. Main research goals:

- Unraveling the mechanisms of neurodegenerative diseases using transgenic animal models (SOD1 rats or 3xTg AD mice);
- Using stem cells to delay disease progression and to ameliorate the neurological and/or cognitive deficits in neurodegenerative diseases;
- Studying the neuroprotective effect of stem cells and/or growth factors in the treatment of neurodegenerative diseases;
- Developing differentiation protocols for iPSC or NSCs as suitable candidates for transplantation into different animal models;
- Analyzing the interactions between stem cells and biomaterials tailored for use in CNS repair and their differentiation in 3D structures;
- Elucidating the interactions between cell-polymer implants and the host tissue.

Requirements: thesis with relevance to stem cells in neuroscience defended in April 2008 or later, very good knowledge of English (CAE or equivalent) or Czech, at least 3 articles in impacted journals (IF>1).



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ



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How to apply: Send a letter of motivation, CV, copy of university diploma, proof of nationality, list of publications and abstract of the thesis. All documents must be originals or certified copies and submitted in Czech or English by surface mail no later than 15 June 2012 to the given address, marked „BIOCEV POSTDOC – STEM CELLS“. Shortlisted candidates will be invited for an interview. Travel expenses can not be covered.

Applicants will be assessed based on the number and quality of publications in IF journals, the scope and quality of lectures presented, the total duration of foreign research fellowships, the scope of methodological knowledge and the significance and quality of the letters of reference and recommendations.



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