



May 2017

Postdoctoral Scientist in Neural Stem Cell Biology
Institute for Neurosciences of Montpellier

Applications are invited for a postdoctoral research scientist to join the “Brain plasticity, stem cells and gliomas” (Pr H Duffau) at the institute for neurosciences of Montpellier, France (INM)

The research will be targeted towards deciphering and understanding the molecular events and signalling leading to activation of the neural stem cell niches, especially in the context of adult spinal cord pathologies. The project will involve various technologies including primary cell culture, FACS, transgenic animal, histology, cell imaging, bio-informatics and in vivo experiments in mice. Previous experience in stem cell biology and high-throughput approaches will be a plus.

The 2 1/2-year position is funded by the ERANET network “Neuroniche” consisting of 6 countries focusing on spinal cord regeneration and stem cells, using zebrafish and mammal models.

The Institute for Neuroscience of Montpellier (www.inmfrance.com) is a multidisciplinary research center created in 2006 in the main Hospital of Montpellier. The Institute comprises groups in developmental biology, motor and sensory deficits and has excellent core facilities.

Applicants are invited to submit a full CV, a brief statement of research experience and interests and contact information for 2-3 potential referees, to Dr JP Hugnot (hugnot@gmail.com). The recruited candidate is expected to start as early as possible.

Relevant lab work:

- 1-The spinal cord ependymal region: a stem cell niche in the caudal central nervous system. *Front Biosci* . 2011 Jan 1;16:1044-59. Review
- 2-A mesenchymal-like ZEB1(+) niche harbors dorsal radial glial fibrillary acidic protein-positive stem cells in the spinal cord. *Stem Cells*. 2009 Nov;27(11):2722-33
- 3-Adult human spinal cord harbors neural precursor cells that generate neurons and glial cells in vitro. *J Neurosci Res*. 2008 Jul;86(9):1916-26.
- 4-Vascular Transdifferentiation in the CNS: A Focus on Neural and Glioblastoma Stem-Like Cells. *Stem Cells Int*. 2016;2016:2759403.
- 5-Notch1 stimulation induces a vascularization switch with pericyte-like cell differentiation of glioblastoma stem cells. *Stem Cells*. 2015 Jan;33(1):21-34