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**Research Activity:**

We are mainly interested in the development of novel therapies for brain repair based in neuroprotective and stem cell-based strategies. Our research activity is based in four main pillars: 1) Neuromodulation of brain cell communication; 2) Neuroprotection against neurodegenerative conditions; 3) Neuroinflammation as a double sword in the brain in health and disease; 4) Neuroregeneration and Brain Repair using Neural Stem Cells.

We have been particularly active in developing novel tools useful to pharmacologically characterize cells differentiating from neural stem cell cultures. These tools have been recognized on the basis of their potential to identify new drug targets in neurogenesis and oligodendrogenesis, but also to identify new proneurogenic and pro-oligodendrogenic factors.

At the long term, we intend to improve our fundamental knowledge about neural stem cell biology and develop novel strategies to improve neural stem cell-based cell therapies of brain diseases.

<http://www.spn.org.pt/member/webpage.asp?w=1>

[http://www.cnb.pt/research/areaA6\\_2.asp?lg=2](http://www.cnb.pt/research/areaA6_2.asp?lg=2)