

## Position for Early Stage Researcher (36 months)

**Title:** Astrocyte Cell Physiology and Pathophysiology

**Team:**

**Head:** Prof. Robert Zorec

**AIM:**

**Studying membrane dynamics and vesicle traffic in single astrocytes from wild type and transgenic animal cells.**

**Methods & environment:**

Electrophysiological membrane capacitance techniques for assaying single cell membrane area and single fusion pore exocytotic events. Optical quantitative imaging microscopy techniques such as high-resolution confocal microscopy, FRET microscopy and live object mobility studies utilizing molecular biology techniques.

Laboratories include biochemistry, molecular biology, wet lab, cell culture facilities, electrophysiology platforms, microscopy platforms, all part of the Carl Zeiss Reference Center for Confocal Microscopy.

**Candidate profile:**

Background in biomedical sciences or biology or physics or bioengineering or related fields of biological sciences; required experience: computer skills (such as MATLAB or equivalent) or willingness to learn signal and image processing, required knowledge of English and required interests in cell science and molecular physiology/biology.

**Contact:**

Please send your CV and a letter of intent to Prof. Robert Zorec at: [neuroendo@mf.uni-lj.si](mailto:neuroendo@mf.uni-lj.si) or [robert.zorec@mf.uni-lj.si](mailto:robert.zorec@mf.uni-lj.si)

You will find more details on our project website: <http://www.eduglia.eu/>