



Education and Culture DG

Lifelong Learning Programme

Erasmus Student Placement

(For participants **accident and liability insurance** will be completely covered by the University of Ferrara)

| EMPLOYER INFORMATION | |
|--|--|
| Name of organisation: | Institute for bioengineering of Catalonia (IBEC) |
| Address: | C/ Baldiri Reixac 15-21, Barcelona 08028 |
| Website: | http://www.ibecbarcelona.eu/nano |
| Short description of the organisation: | IBEC is the leading research institution in bioengineering and nanomedicine in Spain |
| Number of employees: | 300 |

| CONTACT DETAILS | |
|----------------------------------|--|
| Contact person: | Pau Gorostiza |
| Department/Function: | principal investigator, Nanoprobes & Nanoswitches Laboratory |
| Direct telephone number and fax: | +34 934 020 118 |
| Direct e-mail address: | pau@icrea.cat |

| PLACEMENT INFORMATION | |
|------------------------------------|---|
| Departement/Function: | research training visitor, Nanoprobes & Nanoswitches Lab |
| Description of activities: | <p>Development of Optical Nanoswitches for Neurobiology: We work on nanoengineered molecular actuators, with special emphasis on photoisomerizable molecules capable of switching on and off protein activity with light. Nanoswitches can be chemically attached to a protein, or be freely diffusible as pharmacological compounds. Our fields of interest are Neurotransmission (fundamental mechanisms of exocytosis and endocytosis), Nanomedicine and Neurorehabilitation.</p> <p>Gorostiza & Isacoff, <i>Science</i> 322:395 (2008)</p> <p>Gorostiza, Volgraf et al. <i>PNAS</i> 104:10865 (2007)</p> <p>Volgraf, Gorostiza et al. <i>Nature Chemical Biology</i> 2:47 (2006)</p> <p>Request article reprints in PDF format at pau@icrea.cat</p> |
| Duration/ starting date: | flexible |
| Working hours: | flexible |
| Accommodation support (optional): | YES |
| Financial contribution (optional): | YES |
| Other: | roundtrip ticket up to 200€ |

| REQUIREMENTS | |
|-----------------------------------|--|
| Oral and written language skills: | English |
| Computer skills: | basic |
| Field of studies: | physiology, pharmacology, biotechnology, biological imaging, biophysics, synthetic chemistry |

Other:

experience with electrophysiology is valued but not essential