



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

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

PLACEMENT INFORMATION	
<i>Departement/Function:</i>	research training visitor, Nanoprobes & Nanoswitches Lab
<i>Description of activities:</i>	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. Gorostiza & Isacoff, <i>Science</i> 322:395 (2008) Gorostiza, Volgraf et al. <i>PNAS</i> 104:10865 (2007) Volgraf, Gorostiza et al. <i>Nature Chemical Biology</i> 2:47 (2006) Request article reprints in PDF format at pau@icrea.cat
<i>Duration/ starting date:</i>	flexible
<i>Working hours:</i>	flexible
<i>Accommodation support (optional):</i>	YES
<i>Financial contribution (optional):</i>	YES
<i>Other:</i>	roundtrip ticket up to 200€

REQUIREMENTS	
<i>Oral and written language skills:</i>	English
<i>Computer skills:</i>	basic
<i>Field of studies:</i>	physiology, pharmacology, biotechnology, biological imaging, biophysics, synthetic chemistry

<i>Other:</i>	experience with electrophysiology is valued but not essential
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