

IBEC (Institute for Bioengineering of Catalonia) is an interdisciplinary research center focused on Bioengineering and Nanomedicine based in Barcelona. IBEC's **mission** is to develop international high quality interdisciplinary research that, while creating knowledge, contributes to making a better quality of life, improving health and creating wealth. A close link with key universities, reference hospitals and corporations, are assets that facilitate achieving the mission.

IBEC was founded in 2005 by the Generalitat de Catalunya, the University of Barcelona (UB) and the Polytechnic University of Catalonia (UPC).

IBEC is located within the **Barcelona Science Park**, with premises of 2.500 square meters, 16 research groups and a team of researchers and support services of 250 people from 20 different countries. www.ibecbarcelona.eu



Marie Curie Postdoc Position in Engineering of nanovectors for the delivery of antimalarial drugs to *Plasmodium* transmission forms (Ref. MC-XF)

The **Nanomalaria** group at the **Institute for Bioengineering of Catalonia (IBEC)** is looking for **Postdoctoral candidates** to apply for the **2016 calls** of the **European Commission Marie Curie Individual fellowship**.

Tasks and responsibilities:

- Design of a nanovector (nanocapsule+targeting element+drug) for the targeted delivery of antimalarials to *Plasmodium falciparum* gametocytes.
- Improvement of glycosaminoglycan-mediated targeting to *Plasmodium*-infected cells.
- Development of DNA aptamers as inhibitors of apicoplastidic enzymes.

Requirements for candidates:

- PhD Degree in life sciences, medicine, biochemistry or biotechnology.
- Work with laboratory animals (mice) will be required.
- Experience in the in vitro culture of *Plasmodium* will be a value.
- Computer literacy and analytical skills.
- Self-critical, capacity to learn and bring knowledge.
- High level of English.
- High motivation and ability to be involved in an international multidisciplinary team.
- Excellent team working and communication skills.
- Personal commitment to contribute to malaria eradication.
- **Transnational Mobility Requirement: researchers must not have resided or carried out their main activity (work, studies, etc.) in Spain for more than 12 months in the 3 years immediately prior to the call deadline (14/09/2016).**

Selected references:

- Marques *et al.* (2016) *Scientific Reports* 6:24368.
 Moles, E. *et al.* (2015) *J. Control. Release* 210:217.
 Movellan, J. *et al.* (2014) *Biomaterials* 35:7940.
 Marques, J. *et al.* (2014) *Nanomedicine: NBM* 10:1719.
 Urbán, P. *et al.* (2014) *J. Control. Release* 177:84.
 Valle-Delgado, J.J. *et al.* (2013) *Nanoscale* 5:3673.
 Urbán, P. *et al.* (2011) *J. Control. Release* 151:202.



HR EXCELLENCE IN RESEARCH

IBEC is committed to the principles of the Code of Conduct for the Recruitment of Researchers of the European Commission. Thus, there are no restrictions of citizenship or gender and candidates with disabilities are strongly encouraged to apply.