



MSCA-ITN-2014-ETN: Marie Skłodowska- Curie Innovative Training Networks (ITN-ETN)



IMMUNOSHAPE "Selective Carbohydrate Immunomodulators targeting C-type Lectin Receptors on Antigen Presenting Cells"

Grant agreement n°: 642870

ESR Position: Preparation of activated dendrimers and dendritic structures

Applications are invited for a 36 months position as early-stage researcher (ESR) to work on the Marie Skłodowska-Curie Innovative Training Network IMMUNOSHAPE (Selective Carbohydrate Immunomodulators targeting C-type Lectin Receptors on Antigen Presenting Cells).

The research, which will be carried out at Instituto de Investigaciones Químicas, CSIC, in Seville (Spain), revolves around the development of convergent synthetic strategies to prepare monodisperse glycodendritic systems of different size, valency and shape and glycodendrons functionalized at the focal position for further conjugation to microarray surfaces or other scaffolds. Selected glycans and glycomimetics will be conjugated at different valency and the constructs either used directly for solution phase assays or printed onto microarray surface to evaluate effects of surface density on C-type Lectin Receptor binding. For the internalisation studies, fluorescent glycodendrimers based on clickable dendrons, will be synthesized.

The successful candidate will participate in the network's training activities and work placements at the laboratories of the participating academic and industrial teams. Regular meetings and workshops within the EU-funded IMMUNOSHAPE International Training Network will supplement the training and support provided at Instituto de Investigaciones Químicas, CSIC.

IMMUNOSHAPE is a major EU funded programme which brings together 13 leading European partners in a transnational network, implementing a multidisciplinary and intersectorial research and training programme between the academic and the industrial partners in the fields of biomedical glycoscience. IMMUNOSHAPE aims at training a new generation of scientists that will be capable of combining state of the art synthesis and screening technology to develop new lead structures for highly selective glycan based multivalent immunotherapeutics for the treatment of cancer, autoimmune diseases and allergy.

Requirements

Applicants should meet the following eligibility criteria:

- Have a Diploma and/or a Master Degree in Chemistry.
- Have less than 4 years research experience at the signature of the contract (measured from the time the Master's degree has been obtained).

- Not have a PhD already.
- Not have resided or carried out main activity in Spain for more than 12 months in the last 3 years immediately prior to the reference recruitment date.
- Excellent knowledge of the English language (spoken and written / proficiency level)
- Good skills in organic synthesis will be a plus.

Benefits

The ESR will be contractually employed by CSIC and will be covered under the social security scheme. He or she will receive a Monthly Living Allowance plus a Mobility Allowance compliant with the applicable EC Marie Skłodowska-Curie Actions-ITN general conditions.

Application procedure:

Candidates should submit a CV, cover letter and the names and contact details of at least 3 references by e-mail to javier.rojo@iiq.csic.es indicating reference IMMUNOSHAPE-CSIC in the subject. The deadline for application is 28/02/2015

Career Stage

Early stage researcher or 0-4 yrs (Post graduate)

Research Profiles

First Stage Researcher (R1)

Is the job funded through the EU Research Framework Programme?

H2020/Marie Curie Actions

Project's Marie Curie Grant Agreement Number

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