

Postdoctoral Position in Chemical Biology/Biochemistry (ERC-StG project)



European Research Council

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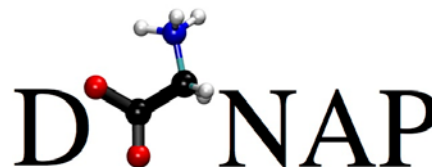
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The group of [Dr. Javier Montenegro](#) is seeking for a **Postdoctoral associate** with strong background in **Chemical Biology/Biochemistry**. This is an excellent opportunity to join **DYNAP**, a cutting-edge research funded by the [ERC-Starting Grant](#).

The aim of **DYNAP** project is to identify, at the molecular level, the minimal topological and structural motifs that govern the membrane translocation of short peptides. A covalent reversible bond strategy will be developed for the synthesis of self-adaptive penetrating peptides (adaptamers) for targeted delivery.

DESCRIPTION

The applicant will be involved in the **biochemical characterization of novel membrane penetrating and bioactive molecules**, including transfection, internalization pathways, localization, function, etc.



REQUIREMENTS

We seek outstanding individuals with initiative, creativity and team-working ability and with a PhD in Chemical Biology, Biochemistry or Molecular Biology.

Experience in cell biology, cellular uptake and transfection mechanisms, lectins and membrane proteins and/or peptide synthesis will be highly considered.

Good communication skills and proficiency in written and spoken English are essential.

REFERENCES

"Cellular Uptake: Lessons from Supramolecular Organic Chemistry", G. Gasparini, E.-K. Bang, J. Montenegro and S. Matile, [Chem. Commun. 2015, 51, 10389-10402](#).

"Single-nucleotide-resolution DNA differentiation by pattern generation in lipid bilayer membranes" Priegue, J. M.; Montenegro,* J.; Granja, J. R. [Small, 2014, 10, 3613-3618](#).

"Dynamic Amphiphile Libraries To Screen for the "Fragrant" Delivery of siRNA into HeLa Cells and Human Primary Fibroblasts." Gehin, C.; Montenegro, J.; Bang, E.-K.; Cajaraville, A.; Takayama, S.; Hirose, H.; Futaki, S.; Matile, S.; Riezman, H. [J. Am. Chem. Soc., 2013, 135, 9295-9298](#).

STARTING DATE AND TERM

April 2016, 2 years contract (annual evaluation).

APPLICATIONS

Applications should be sent directly to Dr. Montenegro, javier.montenegro@usc.es, including a CV (maximum 2 pages), a complete list of publications and the name and the e-mail of two contact persons, indicating in the subject **DYNAP-02**.

DEADLINE

March 30th, 2016