

Postdoctoral Position in Organic – Sugar Chemistry (ERC-StG project)



European Research Council

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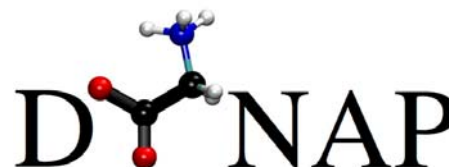
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The group of [Dr. Javier Montenegro](#) is seeking for a **Postdoctoral associate** with strong background in **Organic - Sugar Chemistry**. This is an excellent opportunity to join **DYNAP**, a cutting-edge research funded by the [ERC-Starting Grant](#).

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 work on the development of **novel membrane penetrating molecules** by implementing dynamic supramolecular and polymer chemistry.



REQUIREMENTS

We seek outstanding individuals with initiative, creativity and team-working ability and with a PhD in Organic Chemistry.

Training in sugar chemistry, as well as peptide and supramolecular chemistry 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

May/June 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-03**.

DEADLINE

April 24th, 2016