

Postdoctoral Position in Chemical Biology/Biochemistry/Immunology

The group of [Dr. Javier Montenegro](#) is seeking for a **Postdoctoral associate** with strong background in **Chemical Biology/Biochemistry/Immunology**. This is an excellent opportunity to join the [Montenegro lab](#) and work in a multidisciplinary team in a great challenge for the development of new peptide vectors for nucleic acid immunotherapy.

The aim of the project is to identify new peptide and structural motifs to control the membrane translocation nucleic acids (e.g., mRNA) for the development of vaccines against cancer.

DESCRIPTION

The applicant will be involved in the **biochemical characterization of novel membrane penetrating and bioactive molecules**, including transfection, internalization pathways, localization, function, etc. *In vivo* experiments towards nucleic acids cancer immunotherapy will be targeted in this approach.

REQUIREMENTS

We seek motivated candidates with initiative, creativity and team-working ability and with a PhD in Chemical Biology, Biochemistry, Immunotherapy, Molecular Biology.

Experience in nucleic acid-based immunotherapy will be highly considered.

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

REFERENCES

Short Oligoalanine Helical Peptides for Supramolecular Nanopore Assembly and Protein Cytosolic Delivery, Pazo, M.; Salluce, G.; Lostalé-Seijo, I.; Juanes, M., Gonzalez, F.; García-Fandiño, R.; Montenegro, J.; [RSC Chemical Biology 2021, 2, 503-512](#).

Synthetic materials at the forefront of gene delivery, Lostalé-Seijo, I.; Montenegro, J.; [Nat. Rev. Chem. 2018, 2, 258-277](#).

Peptide/Cas9 Nano-structures for Ribonucleoprotein Cell Membrane Transport and Gene Edition, Lostalé-Seijo, I.; Louzao, I.; Juanes, M.; Montenegro, J. [Chem. Sci., 2017, 8, 7923-7931](#).

STARTING DATE AND TERM

Starting from Dec 2021 (flexibility in starting date), 1 year of contract with possible 1-year extension.

APPLICATIONS AND DEADLINE

Applications should be sent directly to Dr. Montenegro, javier.montenegro@usc.es, as soon as possible and 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 **Post-doc**.