

Responsible for LC-MS/MS bioanalysis carried out at the Small Molecule Drug Discovery platform.

The candidate will be responsible for all LC-MS/MS bioanalysis carried out at the Small Molecule Drug Discovery platform at CIMA (Center for Applied Medical Research, Pamplona, Spain). For the different projects, this involves:

- Pharmacokinetic profiling of advanced compounds from different projects in mouse models, using WinNonlin software.
- LC-MS/MS analysis of compounds in different matrices: cell culture media and biological samples (plasma, cerebrospinal fluid, tumor samples, different tissues and organs). Set up of the analytical and quantification methods.
- Permeability studies (PAMPA).
- Plasma or brain protein binding studies.
- Drug stability studies.
- Quality control (purity determination) of compounds.

Currently, our lab is strongly focused on the development of epigenetic therapies as an alternative to standard oncological treatments and other diseases.

We recently reported the discovery of a novel compound (CM-272) as a first-in-class inhibitor targeting the G9a and DNMTs methyltransferase activity with nanomolar potency (Nat. Commun. 2017; doi: 10.1038/ncomms15424). CM-272 significantly prolongs survival of acute myeloid leukaemia, acute lymphoblastic leukaemia and diffuse large B-cell lymphoma xenogeneic models. The in vivo efficacy of CM-272 in alternative cancers (e.g. solid tumors) is currently being investigated, alone or in combination with other chemotherapeutic agents. In this regard, the candidate would support the design of in vivo efficacy experiments. We are developing a second generation of epigenetic inhibitors (undisclosed target), having promising biological activity. The optimization of these compounds is on-going and the candidate will participate in all aspects concerning LC-MS/MS bioanalysis and will be integrated in the decision work-flow to progress compound candidates for in vivo efficacy testing.

Specific requirements:

- Ph.D. in Bioanalysis, Pharmacokinetics, Analytical Chemistry, Pharmacology, Drug Metabolism or related fields
- Experience in LC-MS/MS quantitative analysis
- Highly proactive, with ability to work independently and eager to learn
- Experience in sample preparation for bioanalysis is desirable
- Experience in developing in vitro ADME studies is desirable
- Experience with data analysis software (WinNonlin) is desirable
- Experience in drug discovery process is an advantage

Interested applicants should send a cover letter describing past experience and interests as well as their CV including references to direccioncima@unav.es

Pamplona, September 2018