

For implementing the project entitled "Mimicking living matter mechanisms by five-dimensional chemistry Approaches" financing contract no. **PN-III-P4-ID-PCCF-2016-0050**, "P. Poni" Institute of Macromolecular Chemistry, Romanian Academy announces the existence of one postdoc position opening, part time, within the framework of this project.

Description

The "P. Poni" Institute of Macromolecular Chemistry, Romanian Academy welcomes applications for a highly motivated PhD student for research in the area of medicinal chemistry and related subjects. The project will focus on the develop of a strategy to synthesize and test (macro)molecular entities of dynamic (re)organizing type, able to act as nanoplatfroms of biologic and biomedical relevance. This programme will join a novel and emerging field of bio-medical applications, thus offering opportunity for multidisciplinary training, new discovery and excellent career development. In this context, some bio-molecules involving systems will be considered in the attempts to emulate real biological/pharmacological environments, like those that valorize the inhibition of carbonic anhydrases (CAs) or stabilization of G4 structures. Potentially, modulators of cancer-associated proteins and nucleic acids will represent the applications of the developed nanoplatfroms.

The key tasks in this PhD position will be the development of efficient strategies for the synthesis of CAs inhibitors and G4-stabilizing molecules. Basic knowledge in medicinal and organic chemistry is required. The applicant should be able to independently characterize and optimize the synthesized ligands and critically assess data and results. The candidate should be highly motivated and possess excellent interpersonal and collaboration skills.

- Good oral and written communication skills in English

PhD Student/part time

Domain: Medicinal chemistry.

Nr of positions available: 1

Research Fields: Design and synthesis of carbonic anhydrase inhibitors and G4-stabilizing ligands, biological stopped-flow assays.

Career Stage: MSc in Pharmacy and/or Medicinal Chemistry

Research Profile: Candidates should send their applications (cover letter, cv, list of publications) to Dr. Anca Petrovici (petrovici.anca@icmpp.ro)

Deadline for applications: 15.03.2019

Expected start of the fellowship: 01.04.2019