

RESEARCHER POSITION IN BIOINORGANIC CHEMISTRY

Permanent contract with CEA at Grenoble - IRIG
SyMMES (UMR 5819 Univ. Grenoble Alpes, CEA, CNRS)

Job description

Within the *CIBEST* team - Chemistry Interface Biology for Environment, Health and Toxicology, the new recruit will be involved in the design and synthesis, chemical characterization and biological validation of metal ligands or chelators as therapeutic tools. The team has expertise in the field of diseases related to metal overloads such as copper in Wilson's disease. The developments could therefore initially be oriented towards specific copper chelators and their functionalization by biomolecules for localized treatment in targeted organs. Similar approaches could also be applied to other metals of interest in public health and in the nuclear field. Other applications relevant to human health and involving metal complexes could be developed, for example for the design of antioxidants or the delivery of therapeutic nanoparticles.

The new recruit will work in strong interaction with the other members of the team, i.e. biologists, biochemists and chemists, to develop projects anchored at the chemistry-biology interface involving metals or metal nanoparticles. He/she will also benefit from the multidisciplinary environment of the SyMMES laboratory, which is ideal to set up collaborations within the unit. Moreover the highly dynamic local environment provided by Grenoble Alpes University (IdEx, LabEx, EUR) strongly supports health-related research within local partnerships.

Profile of the candidate

The candidate should be a chemist with strong skills in organic synthesis and an extensive knowledge of the chemistry-biology interface. He/she should have a PhD in chemistry and one or more post-doctoral research experiences typically 4 to 8 years after the PhD. International and supervision experience will be considered as additional assets.

He/she should be an expert in organic synthesis. Additional expertise such as cell targeting of active compounds through grafting with natural building blocks like amino acids, sugars, or oligonucleotides, the complexation of metal ions in life and more generally mechanisms involved in biology and at the cellular level will be highly appreciated.

The candidate will have to demonstrate his/her collective spirit and ability to work in a team in a multidisciplinary environment at the chemistry-biology interface.

Finally, the candidate will have the ambition and the capacity to propose and develop innovative research projects involving metals in life, setting up local collaborations and writing national and international collaborative proposals in the short term.

To apply, please send a detailed resume, a summary of your research activities, a motivation letter describing how you would fit the requested profile and two reference letters to Pascale DELANGLE (pascale.delangle@cea.fr) **before May 15th 2020**.

Position available as of September 1st 2020.