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Postdoctoral Position in Organic Chemistry – Isotope Labeling

Location: CEA-Saclay, Department of bioorganic chemistry and isotopic labeling, Gif sur Yvette, France.

Job description:

Labeling of organic compounds with β^- emitting isotopes has a remarkable impact on public health and particularly on the collection of ADME data. While radiolabeling of small organic molecule has witnessed major attention, access to biologics still represents a challenge. Within this ANR funded project (ThioFUN), we aim to develop novel methodologies for the effective late-stage labeling of complex pharmaceutically molecules, including glycosides and proteins. The project will explore new avenues utilizing sulfur isotope (^{34}S and ^{35}S), as the favorable physical properties of this β^- emitter (^{35}S) is particularly attractive for the labeling of macromolecules.

The postdoctoral fellow will be hosted in the Laboratory of Carbon-14 Labeling (CEA), which has an established expertise in isotope labeling and will strongly interact with partners at BioCIS (Paris Saclay) and CBM (Orleans). All experiments will be conducted with stable sulfur-32 and -34 isotopes. CEA personnel will perform experiments with sufur-35.

Duration: 12 months. Salary: 2100-2300€ net per month

Candidate profile: the successful candidate is a skilled organic chemist, holder of a PhD in organic chemistry, with a strong scientific record, a high motivation. Good verbal and written communication skills, a flair for teamwork and synthetic methodology are required.

How to apply: applicants should send their CV with a list of current publications, a cover letter motivating their interest in the position and the names and addresses of two referees to davide.audisio@cea.fr. The selected candidate is expected to start at the end of 2021. Applications are considered from now, until the position is filled.

References:

-For recent publication from our laboratory, see: *J. Am. Chem. Soc.* **2021**, *143*, 5659–5665; *ACS Catal.* ***2021***, *11, 2968–2976; Chem. Commun.*, ***2020***, *56, 11677-11680; Angew. Chem. Int. Ed.* ***2020***, *59, 13490 –13495; J. Am. Chem. Soc.* ***2019***, *141, 780-784; Angew. Chem. Int. Ed.* **2018**, *57,* 9744.