



Postdoctoral Position Organic Chemistry – Isotope Labeling

CEA-Saclay, Université Paris-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 organic molecules has witnessed major attention, late-stage access still represents a challenge. Within the ERC project [FASTLabEx](#), we aim to develop novel methodologies for the effective late-stage labeling of complex pharmaceutically active molecules. The project will explore new methodologies using primary carbon-labeled building blocks (CO_2 , CO, etc). The use of transition metal catalysis (Pd, Ni etc) and photocatalysis will be explored.

The postdoctoral fellow will be hosted in the [Laboratory of Isotope Labeling](#) (CEA), which has an established expertise in metal catalysis, photoredox chemistry and isotope labeling. All experiments will be conducted with stable carbon-13. CEA personnel will perform experiments with carbon-14.

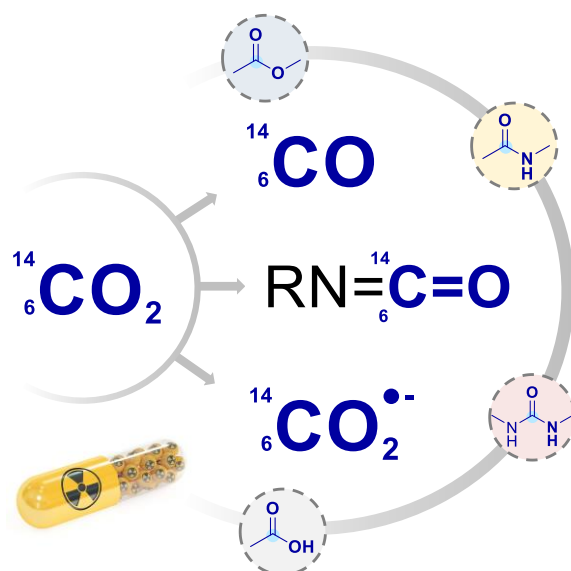
Duration: 12 months. Salary: 2300-2600€ net per month.

Candidate profile: the successful candidate is a skilled organic chemist, holder of a PhD in organic chemistry, with a strong scientific record and 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 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 July 2024. Applications are considered from now, until the position is filled.

References:

-For recent publication from our laboratory, see: *J. Am. Chem. Soc.* **2024**, *146*, 8343–8351, *J. Am. Chem. Soc.* **2023**, *145*, 30, 16760–16770, *Nat. Commun.* **2023**, *14*, 4451, *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.



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