

A one year postdoctoral position in HR-MAS NMR-based metabolomics is available at CEA-Saclay, France, 20 km south of Paris.

HR-MAS NMR spectroscopy has successfully employed in the study of metabolome in heterogeneous biospecimens such as cells, tissues and organisms. However, due to the low detection sensitivity it relies on large sample sizes of up to 10-20 mg per spectral data and it has limited the metabolic investigations in biology and in medicine. For this reason, there is currently a need to develop new NMR tools capable of analysis small-sample size (<1mg).

The aim is to establish a new NMR spectroscopic technique for profiling of tiny-scale 'ug' specimens using a recently developed HRuMAS probe (JEOL) [Analyst, 140, 8097 (2015); Anal Methods, 8, 6815 (2016)] - in hope to open a new NMR venue for metabolomic applications.

The individual will be in charge of evaluating the overall performance of HRuMAS NMR spectroscopy, establishing reliable experimental protocols (from sample-packing to data acquisition) for metabolomic applications and applying them to real metabolomic studies with experts.

We are looking for a highly motivated and independently thinking scientist with a PhD degree. The candidate should have experience in NMR-based metabolomic studies (preferably with HR-MAS and with Bruker system) and in multivariate data analyses and be willing to explore 'new' NMR methodologies.

The interested candidates should send their application (a CV with a cover letter and two reference contacts) to Alan Wong:

alan.wong@cea.fr

For more information, please do not hesitate to contact alan.wong@cea.fr

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