

Fiche d'offre de stage ou emploi

Proposition : Postdoctoral / Engineer position
Intitulé : Postdoc in biotechnological neurotoxin detection systems
Ville : Saclay, Gif sur Yvette, France
Validité : 14/01/2019 - 31/03/2019
Proposition:

Because of their lethality, environmental neurotoxins may be used as chemical weapons. That is the case of saxitoxin that is listed in Schedule 1 of the Chemical Weapons Convention (CWC), alongside with mustard gases, sarin, ricin and the like. Saxitoxin is accumulated by shellfish that filter feed on toxic dinoflagellates of the genus *Alexandrium*, constituting a serious risk for Public Health. In freshwater environment saxitoxin produced by filamentous cyanobacteria is a threat for drink water reservoirs. The lab is looking for a motivated post-doc or research engineer to develop multilevel detection systems for neurotoxins acting on key components of the human Nervous System (channels, receptors and enzymes). We seek to develop interfaces to couple the developed bioassays with mass spectrometry to identify neurotoxins for civil and military purposes. Successful candidates will help to design and execute an applied research program aiming to shorten the time between neurotoxins detection/discovery and their identification.

Descriptif technique:

Neurotoxin detection, ELISA, lateral flow test, membrane protein biochemistry, neuroreceptors, mass spectrometry, microfluidics.

Profil requis:

We are looking for a candidate who wants to perform applied research in the interface of neurotoxin detection (ELISA, LFT), membrane protein biochemistry, microfluidics and mass spectrometry, meeting the following criteria:

- Ph.D. or research engineer in molecular biotechnology, protein biochemistry, biomolecular analysis and mass spectrometry, biotechnology, toxinology.
- Experience in at least two of the following areas: method development, toxin-receptor interactions, microfluidics, mass spectrometry, biotechnology.
- Enthusiasm, ambition, and happy to work in a team.

Please send a brief letter of interest describing your research experience, skills and your goals concerning this proposal, with a C.V., contact information and two referees to Romulo Araoz.

Conditions offertes:

The position is initially for 1 year with possibilities to be extended for a 1 year more. The candidate is also expected to apply for alternative funding sources.

Both, French and international candidates are welcome.

Contact:

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