



Job Title: Post-doctoral position in natural products

A 29-month postdoctoral position in natural product is available in the Amazonian Natural Substances laboratory of the UMR EcoFoG, Ecology of French Guiana forest, located in the Institut Pasteur de la Guyane (IPG) campus, Cayenne, French Guiana.

Context: Present in French Guiana since 1940, the Institut Pasteur de la Guyane, a non-profit private foundation of public utility, is part of the Institut Pasteur International Network. Its missions are structured around four components: research, public health, education and services. The main research topics are focused on tropical infectious diseases. IPG is implementing a programme, called *STRonGer*, funded by the CAPACITY specific programme FP7-REGPOT-2011-1 (Grant agreement REGPOT-CT-2011-285837), that aims at fostering its research potential on emerging and infectious diseases. This programme is multidisciplinary and involves local and European research teams working on virology, parasitology, entomology, ecology, clinical research, epidemiology and phytochemistry.

The host laboratory: within the framework of the *STRonGer* project, the objectives are to take benefits of the impressive biodiversity of natural products in French Guiana tropical forest to detect highly active antimalarial substances: from sampling on the field to bioassays via structural determination. Bioassays will be conducted on chloroquino-resistant strains of *Plasmodium falciparum*. The position will be shared between the parasitology laboratory of IPG and the Amazonian Natural Substances laboratory (UMR EcoFoG). For more information about projects and recent publications, please visit: <http://www.pasteur-cayenne.fr/stronger> and <http://www.ecofog.gf>.

Job position:

- Prospecting, plant sampling (criteria: ethnopharmacology, chimiotaxonomy, bio-inspiration);
- Extraction (basically plant extracts, and possibly isolated secondary metabolites from microorganisms/insects), bio-guided purification, extraction and analysis processes (considering the biological activity);
- Evaluation of antimalarial activities (*Plasmodium falciparum*).

The candidates should hold a PhD degree in total synthesis / natural products / pharmacognosy. Good to excellent knowledge in separative and analytical chemistry (HPLC), structural determination (GC/MS, NMR) and/or microbiology are required with a good knowledge of English. Experience in biology is warmly recommended (handling in a microbiology lab or experience in parasitology).

Application: Please respond by e-mail to Christophe Duplais (christophe.duplais@ecofog.gf) with a statement of interest and career objectives, CV, and names with contact information for three references. Application deadline: Open until filled. Starting date: summer 2012.