



Job Title: Post-doctoral position in Malaria resistance

A 29-month postdoctoral position in malaria resistance is available in the Laboratory of Parasitology, National Reference Center for Malaria resistance, Institut Pasteur de la Guyane (IPG), Cayenne, French Guiana.

Context: Present in French Guiana since 1940, the Institut Pasteur de la Guyane (IPG), 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. 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 tropical 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: The parasitology lab focuses on resistance of malaria parasite, either *Plasmodium falciparum*, the main pathogen species, or *P. vivax*, which now represents about 2/3 of the malaria cases diagnosed in the Guiana Shield and South America. As National Reference Center for malaria resistance for 25 years, the lab has a long-term interest in optimizing antimalarial drugs uses. *Plasmodium* circulating in South America presents many original aspects in terms of resistance and molecular markers as, in this part of the world, resistant parasites appeared *de novo* and *in situ*. Then, resistant genotypes are usually different from those observed in Africa and South East Asia even if the genes are often the same. Despite this interest, studies on South American isolates are limited. Therefore, our lab conducts research programs on *P. falciparum* to explore: i) its resistance mechanisms to antimalarial drugs, ii) its evolution and iii) its *in vivo* and *in vitro* phenotyping against currently used or future antimalarial drugs. For information about projects and recent publications, please visit: <http://www.pasteur-cayenne.fr/stronger> and <http://www.pasteur-cayenne.fr>.

Job position: The objective of this 29-month initiative is to gain insight the resistance mechanism of *P. falciparum* against antimalarial drugs targeting the digestive vacuole. This issue will be investigated using French Guianan isolates recently adapted to *in vitro* multiplication and genotyped with a high throughput method. We seek a highly motivated individual with experience and previous expertise in malaria resistance and eventually bioinformatics to analyse whole genome sequencing data. Skills in malaria *in vitro* culture would be appreciated. Applicants must have a PhD or postdoctoral experience in a relevant subject and exercise of autonomy, rigor and adaptability qualities.

Application: Please respond by e-mail (using the ref: Parasito 01) to Angéline Azanza (aazanza@pasteur-cayenne.fr) with a statement of interest and career objectives, CV, and names with contact information for three references. Application deadline: Open until filled.