

# Postdoctoral Fellow: Malaria resistance research

*Organisation:* Institut Pasteur de la Guyane

*Department:* Parasitology laboratory, WHO Collaborating Center for Surveillance of Antimalarial Drug Resistance, National Reference Center for Malaria resistance,

*Location:* Cayenne, French Guiana

*Application deadline:* May 31, 2019 (position open until filled)

*Description:* One Postdoctoral position is available at the parasitology laboratory, Institut Pasteur de la Guyane. The laboratory of Dr. Lise Musset focuses on resistance of malaria parasites in the Guiana Shield/South America. As National Reference Center for Malaria for 30 years, the laboratory has a long-term interest in optimizing the use of antimalarial drugs. *Plasmodium spp.* parasites circulating in South America present many original aspects in terms of resistance and molecular markers. In this part of the world, resistant parasites appear *de novo* and *in situ*. Also, evolution of resistance and associated genotypes usually differ from those observed in Africa and South-East Asia. Despite this interest, studies on South American isolates are limited. Our laboratory conducts research programs on *P. falciparum* in this area to explore: i) resistance mechanisms to antimalarial drugs, ii) evolution under drug pressure and iii) *in vivo* and *in vitro* phenotypes against currently used or future antimalarial drugs. Please visit our website <http://www.pasteur-cayenne.fr> for more information about projects and [recent publications](#). Successful candidate will be able to participate in projects focused on the evolution of resistance to artemisinin's partner drugs. This issue will be investigated using French Guianan strains; high throughput genotyping methods and will be associate to a large part of *in vitro* multiplication of parasites and phenotyping methods. The financial support covers a full time for two years position. Candidate will be hire full time for one year with the possibility to extend up to a two year period or even more based on overall performance and available funds.

We are seeking a highly motivated individual with experience and previous expertise in malaria biology, resistance and eventually bioinformatics for whole genome sequencing data analysis. Skills in *in vitro* cultivation of malaria parasites would be appreciated.

## *Qualifications*

- PhD or postdoctoral experience in a relevant field of biology.
- First author in publications, independent critical thinking.
- Adequate understanding of study design, statistics and data analysis.
- Strong quantitative analytical skills.
- Excellent written and communication skills.
- Ability to be self-guided, work effectively and be flexible
- A sense of humor

To apply, please send a CV, names and contact details for two references to Lise Musset ([lmusset@pasteur-cayenne.fr](mailto:lmusset@pasteur-cayenne.fr)) and a statement of interest including your career objectives.