



UMR 5235 Université Montpellier - CNRS

## Post-doctoral position (24 months) in malaria lipid metabolism

Laboratory of Pathogen Host Interactions (LPHI),  
University of Montpellier, CNRS, Montpellier, FRANCE

### **Project: Regulation of the phospholipid metabolism of the malaria parasite**

The malaria parasite relies on phospholipid (PL) metabolism to meet the massive need for membrane biogenesis during its development. The three main PLs of the parasite are essential for parasite survival and synthesized through several connected pathways. Recent analyses of the *Plasmodium falciparum* PL metabolism have raised new fundamental questions about the sources of PLs, the links between the multiple pathways and the existence of some specific enzymatic steps. This ARN-funded project aims at providing better understanding of the interplay between the multiple and interconnected PL pathways leading to the identification of future putative therapeutic targets. We will analyse the metabolic adaptations of the parasite in response to controlled disturbances such as genetic modifications or inhibitor effects. Our approaches combine molecular biology, *Plasmodium* genetics, lipidomics and structural biology.

This position is open in the group of Pr. Rachel Cerdan at the LPHI.

<https://lphi.umontpellier.fr/fr/les-equipes/molecular-approaches-for-new-antimalarial-strategies>

The group has long-term experience in malaria research with a focus on the phospholipid metabolism of the malaria parasite, lipid- and protein biochemistry, and enzymology. We have acquired recognized know-how in the development of antimalarials by bringing a compound to the clinical phases.

Applicants should hold a PhD in Biochemistry and have strong interest in metabolism, regulation of metabolic pathways and prior research experiences in Parasitology. Experience with *Plasmodium* culture is a plus but not required.

This 2-year post-doctoral position should ideally start in Sept./Oct. 2021.

Salary: € 2600-2800 gross/month

To apply, please send a CV and names of two references to:  
Pr. Rachel Cerdan (rachel.cerdan@umontpellier.fr)

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