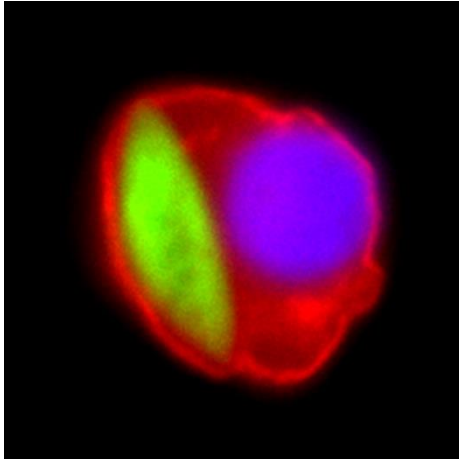




A post-doc position is available to join Catherine Lavazec lab at Institut Cochin in Paris (France).



To thrive and survive, intracellular pathogens actively remodel their host cells. The transmission stages of the human malaria parasite *Plasmodium falciparum*, called gametocytes, develop in erythrocytes and have recently been shown to mature in nucleated erythroid precursors as well (Neveu et al, Blood 2020, PMID: 32589714). This discovery raises new questions about the cross-talk between gametocytes and erythroblasts. It is well known that *P. falciparum* parasites drastically remodel the structural, mechanical and permeability properties of the membrane of their erythrocyte host,

and this remodeling plays a key role for release of gametocytes in circulation, for their chemosensitivity and their recognition by the immune system. However, it remains unknown how gametocytes modify their erythroblast host that has drastically different membrane structure, protein content and metabolic activity than mature erythrocytes. Our team is the first in the world to obtain the complete development of gametocytes in human erythroblasts. Thus, we have the opportunity to uncover new insights into the processes by which *Plasmodium* parasites remodel erythroblasts. Our approaches combine cutting edge microscopy and biophysical techniques with cellular biology.

The candidate: Applicants should have a proven track record in cell biology. Applicants are expected to carry on experiments that involve cellular imaging, while working closely with other teams who bring skills in biophysics and electrophysiology. Motivation to work in a multidisciplinary team is essential. Experience in parasitology and/or cellular imaging is a plus.

This 2-year post-doctoral position should ideally start in November/December 2021.

Applications must include a cover letter with a brief statement of research experience, technical expertise and interests, a CV, a list of publications and contact details of two referees. They should be sent to: catherine.lavazec@inserm.fr

Deadline for application: September 1st