



**ISP**  
Fighting Pathogens

**INRAE**

## **PostDoc position : Identify new repository molecules against Cryptosporidium, Tours, France**

We seek to hire a highly motivated candidate to work on the identification of new repository molecules against *Cryptosporidium* and decipher their mechanism of action. The position is funded by a French ANR grant hold by F Laurent (INRAE) and Ali Hakimi laboratory (CNRS Grenoble). The salary is based on the INRAE remuneration grade table for an experienced post-doc. The contract will be for 18 months, extendable up to 2 years. Day-to-day work will be carried out at INRAE Tours-Nouzilly, with possible experiments at IAD Grenoble. The contract is open and allows immediate recruitment. The project includes drug screening, *in vitro* and *in vivo* assays on various mouse models, target validation with transgenic *Cryptosporidium* parasites.

**The AIM team** (Apicomplexa and Mucosal Immunity) studies the Biology of *Cryptosporidium* and *Eimeria*, host-immune responses and control means and is part of the LabEx ParaFrap. <https://labex-parafrap.fr/fr/pis/fabrice-Laurent>

### **Work published in common by our laboratories on the research topic:**

C. Swale, V. Bellini, *et al.* (2022). Altiratinib blocks *Toxoplasma gondii* and *Plasmodium falciparum* development by selectively targeting a spliceosome kinase. *Science Translational Medicine*, 14 (656), 17 p., <https://dx.doi.org/10.1126/scitranslmed.abn3231>

V. Bellini, *et al.* (2020). Target Identification of an Antimalarial Oxaborole Identifies AN13762 as an Alternative Chemotype for Targeting CPSF3 in Apicomplexan Parasites. *iScience*, 23 (12), 14 p., <https://dx.doi.org/10.1016/j.isci.2020.101871>

C. Swale *et al.* (2019). Metal-captured inhibition of pre-mRNA processing activity by CPSF3 controls *Cryptosporidium* infection. *Sci Transl Med*, 11 (517), 11 p., <https://dx.doi.org/10.1126/scitranslmed.aax7161>

### **Prerequisites:**

- Expertise in the following areas will be very appreciated:
  - molecular parasitology (protozoans)
  - Cell culture
  - Animal experimentation (mouse)
  - Microbiota analysis
- Ability to work self-motivated and perform independent research with national and international collaborators
- Good verbal and written English skills.

### **Application:**

Send your application (motivation letter, CV (including 2 references and short description of previous experiences in relation to this post-doc position) to [fabrice.laurent@inrae.fr](mailto:fabrice.laurent@inrae.fr).

