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## Postdoctoral position studying host-pathogen interactions

A postdoc position is available at the Institut Pasteur in the signalling and host-parasite interactions group, headed by Najma Rachidi, **to investigate the mechanisms by which the parasite modulates host cell signalling, through the study of *Leishmania* casein kinase 1.**

During infection, *Leishmania* parasites release effector molecules via extracellular vesicles to modify their host cell and insure their survival. We are studying one of these effectors, *Leishmania* Casein Kinase 1, a signalling protein kinase essential for intracellular parasite survival. Our *in vitro* data suggest that this kinase might fulfil a significant part of its function in the macrophage, by regulating processes such as trafficking, translation or apoptosis; processes also modulated during *Leishmania* infection. Our data suggests that *Leishmania* Casein Kinase 1 is an important player in host-parasite interactions as well as an important target for anti-leishmanial drug therapy. The project, part of an ANR, will combine genome editing, siRNA, cutting-edge microscopy and the development of an innovative method to follow the dynamic of infection and its signalling signature with the aim to identify the L-CK1.2 host substrates essential for *Leishmania* infection. For more details about our work, visit <https://research.pasteur.fr/en/team/signalling-and-host-parasite-interactions/>.

**Teams:** The project will be developed under the supervision of Dr Najma Rachidi (<https://research.pasteur.fr/en/member/najma-rachidi/>), PI of the signalling and host-parasite interactions group at the Institut Pasteur in Paris. Institut Pasteur is an international and multi-disciplinary research centre with access to state-of-the-art technologies RNAseq, imaging, electron microscopy...

### Candidate eligibility requirements:

We are looking for a motivated post-doctoral researcher with a strong background in cell culture as well as knockout or knockdown genes (CRISPR Cas9, siRNA and ShRNA) in mammalian cells (cell lines and primary cells). A background in parasitology is not required but would be a bonus. The candidate should be able to work in a multi-disciplinary environment, have a solid record of scientific achievement and a decent level in English. The contract is for two years but the applicant will be strongly encouraged to apply for external and/or internal fellowships.

Please send a cover letter, a CV with a publication list and three references to Najma Rachidi at [najma.rachidi@pasteur.fr](mailto:najma.rachidi@pasteur.fr). **Applications should be sent before November 15<sup>th</sup>**, with a starting date for the postdoc, beginning 2023.