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CALL FOR APPLICATIONS 2025 – FELLOWS

Supervisor	Cécile Nabet
Supervisor page	https://www.linkedin.com/in/c%C3%A9cile-nabet-141bab103/?originalSubdomain=fr
Host Institution	Sorbonne Université https://www.sorbonne-universite.fr/en
Research Lab	Institut Pierre Louis d'Epidémiologie et de Santé Publique https://iplesp.fr/en
Research Team	Surveillance and modelling of communicable diseases https://iplesp.fr/en/research/teams/sumo

Project Title

Using MALDI-TOF combined with artificial intelligence to detect arbovirus infections in mosquito vectors: a new tool for surveillance and prevention of arboviral outbreaks

Project Description

Global change is exacerbating the risk of mosquito-borne diseases and urban greening initiatives aimed at mitigating the effects of climate change could worsen the epidemiological situation. This project adresses the urgent need for effective surveillance tools to monitor mosquito populations by developping an innovative approach that combines MALDI-TOF mass spectrometry and artificial intelligence to detect arboviral infection (dengue, zika, chikungunya) in Aedes albopictus mosquitoes.

Keywords

surveillance tool, arbovirus, mosquito

Description of the Host Research Lab

The heart of our work is public health epidemiology, which includes clinical, population and social epidemiology, as well as pharmaco-epidemiology, biostatistics, statistical and mathematical modeling, clinical research, methodology and clinical trials, relationships between environment and health, social determinants of health and health care organizations.

**To submit your application, please send an email with the required documents to
msca-pf@sorbonne-universite.fr**