



Proposal for a Postdoctoral position in Virology

Deadline for applications: July 21, 2023 at midnight

Beginning: September 01, 2023

Prerequisites: PhD level in Biology with a desired experience during the PhD or post-doc in the field of RNA viruses and/or in vitro viral infection models.

Duration: 12 months (remuneration and status CDD level IGR University)

Location: Virology Laboratory, Faculty of Medicine of Reims, EA4684 (CardioVir)
<https://www.univ-reims.fr/cardiovir/accueil/accueil,15174,26219.html>

PI of the Project and laboratory director: Pr Laurent Andreoletti

Scientific leader of the project: Dr Marie Glenet

Contact and sending of CV + recommendation letter (s) : Dr Marie Glenet
marie.glenet@univ-reims.fr

Project title: "Impact of viral genomic RNA epitranscriptomics on the biology of human cardiomyocyte infection"

The post-doctoral fellow will be in charge of developing and testing new methodologies in the framework of a basic virology project on epitranscriptomics. The objective of this project is to study the "Impact of the epitranscriptome of viral RNAs during the infection of human cardiac cells" (Acronym ViroMOD, financed by the Région Grand Est). More specifically, the post-doctoral fellow will be in charge of screening by esiRNA the enzymes involved in the post-transcriptional modifications of the viral RNA of CV-B3 and SARS-CoV-2 in human cardiac cells.

Keywords: *Human cardiomyocytes, Type I interferon, siRNA screening, CrisprCAS9, Epitranscriptome, viral RNA*

Required skills:

- Experiences in cell and molecular biology techniques and biochemistry (cell culture (continuous and primary lines) transfections, RNA and DNA extraction, quantitative RT-PCR, flow cytometry, western-blots...)
- Experiences in Virology techniques in BSL2 containment laboratory
- Experiences in siRNA techniques and ideally of CrisprCas9

We are looking for a dynamic person, with the ability to work in a team and with intellectual and scientific rigor