

Postdoctoral and MSc positions:

Dr. Jérôme Estaquier's Laboratory,

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The Human Immunodeficiency Virus (HIV), the etiologic agent of AIDS, represents a major health problem worldwide. Nowadays there is no antiviral treatment capable of eradicating the virus from the organism. Even when the antiviral treatment is administrated very early after infection, the virus is able to remain intact in deep tissues. The virus has the capacity to replicate shortly after treatment interruption, demonstrating the importance of cellular and tissular reservoirs. The use of non-human primates in the context of simian immunodeficiency virus (SIV) infection allows the study of physiological compartments which are difficult to access in humans. The objective of our research project is to carry out a comparative study between the infection of myeloid cells and the different subpopulations of CD4 T cells, named naïve, central memory, effector memory, T follicular helper, and terminally differentiated cells, in lymphoid tissues from macaques under antiretroviral therapy, to better understand the mechanisms related to treatment failure and HIV persistence.

Responsibilities

Participate in *in vivo* experiments.
Design and conduct *in vitro* experiments and analyze data.
Present work at national/international meetings.
Take a lead role in writing manuscripts.

Desired skills and experience

BSc in Microbiology/Immunology/Infectiology or related field (for MSc position) or PhD in Immunology/Virology or related field (for Postdoctoral position).

Particularly for the Postdoctoral position:

Expertise in primary cell culture, molecular biology and strong knowledge of flow cytometry.
Excellent communication skills.
Ability to work in a highly collaborative environment. Independent and motivated.
A clear track record of productive research demonstrated by first author publication(s).

Candidates should send their CV and motivation letter to Jérôme Estaquier at the following email address: Jerome.Estaquier@crchudequebec.ulaval.ca