

Context and environment: A post-doc position is available with Elodie Segura in the Immunology department of Institut Curie (INSERM U932). The group studies the biology of human antigen-presenting cells in health and pathology, by combining analysis of human cells directly isolated from tissues and *in vitro* models using human cells.

CD4⁺ T follicular helper (Tfh) cells are essential for inducing efficient humoral responses. In mice, Tfh polarisation is orientated by dendritic cells (DC). Which human antigen-presenting cells are involved in Tfh differentiation has remained unclear. We recently found that human tonsil cDC2 and CD14⁺ macrophages are the best inducers of Tfh polarisation. This ability is intrinsic to the cDC2 lineage but tissue-dependent for macrophages. We further showed that tonsil CD14⁺ macrophages localize *in situ* in the B cell follicles where they can interact with Tfh cells (Durand et al, 2019). Our results indicate that human lymphoid organ cDC2 and macrophages play complementary roles in the induction of Tfh responses. We now want to better understand the cross-talk between tonsil macrophages and Tfh cells, in health and in the context of B cell lymphoma.

Institut Curie is one of the largest European institutions for cancer research with a strong interdisciplinary tradition and state-of-the-art core facilities. It is located in the center of Paris (France), in a rich cultural and scientific environment. The Immunology department, headed by Sebastian Amigorena, includes 10 independent research groups in fundamental and translational immunology, working in a very collaborative and international environment.

Candidate profile: We are looking for a qualified, intellectually curious and highly motivated candidate holding a Ph.D. in biology, preferably in immunology. Familiarity with the following techniques will be an advantage but is not mandatory: flow cytometry, cell culture, and microscopy. Strong organizational and communication skills and independence are essential. Written and spoken English is mandatory. Salary will be dependent on diploma and experience.

Application : Opened until filled. Start date : September 2019.

Please send CV, motivation letter and contact details of at least two persons able to provide references to elodie.segura@curie.fr

<http://esegura-lab.org>

<http://u932.curie.fr/>

Reference :

Durand M, Walter T, Pirnay T, Naessens T, Gueguen P, Goudot C, Lameiras S, Chang Q, Talaei N, Omatsky O, Vassilevskaia T, Baulande S, Amigorena S, Segura E. Human lymphoid organ cDC2 and macrophages play complementary roles in T follicular helper responses (2019). *J Exp Med*. In press