



**Japanese post-doctoral fellowship at the Institut Pasteur:
first call (2019)
Research project 2**

Host laboratory	Innate Immunity Unit
Contact	boursepdjapon@pasteur.fr
Title	Mucosal immunomics
Abstract	Immune responses are conditioned by host genetics as well as environmental stimuli that include disease-causing pathogens but also a diverse community of commensal micro-organisms (bacteria, fungi, viruses). This project aims to understand the genetic and environmental determinants of local mucosal immune responses in normal healthy humans through in-depth analysis of nasal swab samples. Commensal microbiomes (bacterial 16S rRNA) as well as nasal cytokines and immune effectors (antimicrobial peptides, antibodies, metabolites) will be analyzed in a cohort of healthy Japanese adults and compared with an existing dataset derived from a normal French cohort.