

Post-doctoral fellow position on the impact of gut microbiota in the response to anticancer therapeutics

Chemotherapeutic agents, by compromising the intestinal integrity, facilitate gut permeability and selective translocation of Gram positive bacteria in secondary lymphoid organs. There, anti-commensal pathogenic TH17 T cell responses are primed, facilitating the accumulation of TH1 helper cells in tumor beds post-chemotherapy and tumor regression. The anticancer efficacy of alkylating agents and platinum salts is compromised in germ-free mice or animals treated with antibiotics.

A post-doctoral fellow position is available in the team “Nods-like receptors in infection and immunity” at the Pasteur Institute of Lille in the Center for Infection and Immunity of Lille, Inserm U1019 - CNRS UMR 8204. The project aims at further understanding the underlying regulatory mechanisms of the immunomodulatory role of dysbiosis on tumor progression by evaluating the kinetics of dysbiosis and decoding the transmissibility of the protective phenotype triggered by chemotherapeutic agents.

The candidate of any nationality will have a PhD and/or MD with a post-doctoral experience and a strong expertise in bioinformatics and gnotobiology. Fluent knowledge of English and technical skills in mouse experimentation are mandatory. We are seeking an enthusiastic fellow open to new challenges and with a high degree of independence. Highly motivated applicants are encouraged to submit a letter of interest, a CV and two references letters to mathias.chamaillard@inserm.fr by February 15th, 2015.

Closing date: 2015-02-15

Interviews of candidates: 2015-02-20

Employment start date: 2015-03-01