

POST-DOCTORAL POSITION: Mathematical Modeling in Tumor Tumor Immunology



A post-doctoral position supported by the RITC/InNaBiosanté Foundations is available at the beginning of May 2015 in the Laboratory of Salvatore Valitutti at the Center for Physiopathology of Toulouse Purpan, Toulouse, France (<http://www.cptp.inserm.fr/>). The work will be co-directed by Sebastien Gadat at the Institute of Mathematics of Toulouse Toulouse (IMT) (<http://www.math.univ-toulouse.fr>) and at the Toulouse School of Economics (<http://www.tse-fr.eu>).

This project is part of a newly established consortium called the Toulouse Cancer (TOUCAN) Labex of Excellence that merges the best experts in Toulouse in the field of oncology such as to define new therapeutic concepts and targets for cancer, and translate findings into scientific breakthroughs, industrial R&D contracts, teaching and clinical trials (<http://www.labex-toucan.fr/>).

The specific aim of the project is to understand the cellular and molecular mechanisms regulating the Cytotoxic T lymphocyte (CTL)/tumor target cell encounter and influencing both CTL efficacy and tumor resistance. This project will be conducted on clinically-relevant samples and will apply a combination of cutting-edge approaches, including high resolution live microscopy (on isolated cells and tumor tissue slices) and multi-parametric flow-cytometry.

The selected candidate will apply mathematical modeling to ex vivo generated data in order to define personalized “CTL function scores” in cancer patients.

Profile of the candidate:

The candidate should hold a PhD in applied mathematics (probability or statistics) and should have experience in collaborating with immunologists or biologists. She/he will be enthusiastic, highly motivated and have a strong propensity to work on an interdisciplinary project

Contract:

A full-employment contract including social security and health benefits will be offered in accordance with the French public service salary scale. The contract is initially for 18 months.

Application:

Please submit application before April 1, 2015, including CV, statement of interests and future goals, as well as names of two referees.

Contact and information requests: salvatore.valitutti@inserm.fr



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