



UNIVERSITY OF INSUBRIA

School of Medicine

Department of Medicine and Surgery

Chair of General Pathology and Immunology

Laboratories of General Pathology and Immunology “*Giovanna Tosi*”

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Post-doctoral fellowship

Immune response against glioblastoma

One post-doctoral position for candidates who have an established expertise in T cell cloning (mouse and/or human), TcR repertoire and T cell functional analysis both in vitro and ex-vivo, preferentially focussed on CD4+ T helper (Th) cells, is offered in the Laboratory of General Pathology and Immunology “Giovanna Tosi”, School of Medicine, University of Insubria, under the supervision of Prof. Roberto Accolla and Prof. Greta Forlani.

Research program is focussed on the adaptive immune response against glioblastoma (GBM) the most deadly CNS tumor for which therapeutic approaches are still very limited and of extremely poor clinical success.

Candidate research activity will be centered on the genetic modification of GBM cells with the MHC class II transactivator (CIITA), discovered in the laboratory of Prof. Accolla, and on the analysis of CD4+ Th cell response against the repertoire of CIITA-driven MHC-II-restricted tumor peptides newly expressed by the genetically modified tumor cells. Previous studies of the lab have demonstrated that CIITA- modified tumor cells of different histotypes can be rejected or strongly retarded in their in vivo growth by acting as surrogate antigen presenting cells of their own tumor antigens for tumor specific CD4+ Th cells.

The immunopeptidome characterization of MHC class II-bound putative GBM tumor antigens has been already initiated in CIITA-modified murine and human cells. A number of selected peptides are already being synthesized for functional analysis of the T cell response.

The post-doctoral fellowship is for two years, starting from april-may 2022 and extendable to a third year. Basic salary is 25.000 euro/year, adjustable on the basis of the candidate previous experience.

Interested candidates should contact Prof. Accolla or Prof. Forlani at the following e.mail addresses:

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