Post doc position

There is a post doc position opening for a project on preclinical research for immunotherapy against skin tumors using electropulsation. The basic idea is to obtain a partial destruction of tumors to get an exposure of hidden antigens and to boost the immune response by the local (or systemic) expression of cytokine (IL12). The controlled expression will result from the electrically mediated transfer of the relevant plasmid DNA.

There is a need to improve the mode of exposure of the antigens. Improvement in the control of the IL12 expression will be obtained by a proper choice of the tissue target (e.g. peripheral skin, muscle), the plasmid design and the electropulsation protocol.

The candidate needs to have or will get an expertise in electropulsation on animals (i.e. an ability to work with lab animals, i.e. mice, is requested). The group in Toulouse is a leader in the field of electropulsation from the academic, preclinical and technological points of view. One of the largest equipment in electropulsation in France is available in the group.

A strong background in immunology and in cell biology (expertise in fluorescence imaging) would help in the management of this research. Assays in plasmid expression in vivo can be monitored in a quantitative approach by fluorescence imaging at the TRI IBISA platform on the IPBS Campus (https://tri.genotoul.fr/)

The project is in cooperation with 2 local companies (one involved in the design of electropulsators and applicators, the second in the production of plasmids) and a transfer department of the hospital.

The grant is coming from the local government

References


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