Postdoctoral Research Opportunity in Onco-Immunology and Tumor Microenvironment

Duration: 2 years

Location: MEDyC Research Unit, CNRS UMR 7369, Reims, France

Team: "Extracellular Matrix, Cancer, and Therapeutic Targets"

A fully funded postdoctoral position supported by ITMO Cancer - Aviesan is available in the dynamic research environment of the MEDyC research unit in Reims, France.
The successful candidate will join an ambitious interdisciplinary project in collaboration with the Tumor Microenvironment Laboratory (Inserm U1109, Strasbourg) and the Radiobiology Laboratory (ICANS, Strasbourg)

Project Overview:
This innovative research aims to enhance glioblastoma (GBM) remission by leveraging the synergistic targeting of Tenascin-C (TNC) and the TSP1/CD47 axis in combination with radiotherapy (RT). GBM remains one of the most formidable challenges in oncology due to its resistance to current therapies.

Radiotherapy triggers the accumulation of TNC and TSP-1 in the tumor microenvironment, driving immunosuppressive signals and correlating with poor outcomes. By using optimized drug candidates, this project seeks to disrupt this immunosuppressive milieu, thereby potentiating RT efficacy.

Key Responsibilities:
- Characterizing the immunomodulatory effects of innovative peptide-based therapeutics using in vitro and established in vivo GBM models (murine and human).
- Conducting immune-oncology profiling of GBM models under RT combined with matrix-targeting peptides.
- Actively collaborating with project partners, including regular visits to Strasbourg for tumor sampling and knowledge exchange.

Candidate Profile:
We are seeking a highly motivated and skilled researcher with:
- Expertise in onco-immunology, tumor microenvironment, and extracellular matrix biology.
- Hands-on experience with preclinical mouse tumor models (an animal experimentation certification is mandatory).
- A strong track record of research, evidenced by publications in relevant fields.
- Excellent communication, organizational and reporting skills, with the ability to work collaboratively across interdisciplinary teams.

Why Join Us?
- Work on cutting-edge cancer research with real translational potential.
- Collaborate within a multidisciplinary network of renowned laboratories.
- Develop your expertise in immunotherapy, radiotherapy, and tumor microenvironment research.

Application Details:
Interested candidates are invited to send a detailed CV including a publication list, a motivation letter highlighting relevant expertise and career goals and contact details for at least two referees.to Pr. Stéphane Dedieu (stephane.dedieu@univ-reims.fr).

Applications will be considered on a rolling basis until the position is filled.

Key words: radiotherapy, immune-suppressive tumor microenvironment, extracellular matrix, tenascin-C, thrombospondin-1, CD47, targeting peptide.