



Post-doctoral position in Cancer Immunotherapy/Tumor microenvironment

Deciphering the spatial distribution of purinergic checkpoints and validate the next generation anti-cancer therapies

Employer: A 30month post-doctoral position funded by a grant from Fondation pour la Recherche sur le Cancer (TRANSCAN joint Transnational Call) to work on the **Pur-Ther project** in the group headed by Dr Valérie VOURET-CRAVIARI at the **Institute of Cancer and Aging in Nice** (IRCAN, France), in close collaboration with a European consortium composed of leaders in the field of purinergic signaling and development of innovative therapeutic tools.

Scientific goal: Based on our previous studies, we proposed that purinergic checkpoints and eATP-targeting represent the basis of new therapies to cure lung cancers. The post-doctoral fellow will participate in the interdisciplinary collaborative project to improve our understanding on the expression and function of key purinergic signaling checkpoints (PC: P2RX7, CD39, CD73 and A2AR) in human lung adenocarcinoma and exploit PC-targeted nanobodies to cure lung cancer. The missions of the post-doctoral fellow will be to **characterize the expression and function of PC using digital spatial profiling approaches, to optimize the 3D-culture conditions of human lung tumor organoids and to investigate the efficacy of classical immunotherapies combined to PC-targeting nanobodies in both 3D tumor organoids and lung tumor mouse models.**

Candidate profile/Required skills: The successful candidate will have a recent PhD in cell biology with a solid background knowledge in cell culture and cytometry. The candidate will be highly motivated, autonomous, and scientifically curious. Habilitation to perform experiments on animals is mandatory, previous experience on 3D-culture would be a plus. Good communication skills in English or French are required.

Research environment: The candidate will work with the **PI Valérie Vouret-Craviari** in the team headed by Prof P. Hofman. Within the purinergic signaling group, the candidate will collaborate with a graduate student and a technician. The candidate will establish strong collaboration with the European partners of the project: Profs E. Adinolfi and A. Tesei (univ of Ferrara, Italy) Prof S. Adriouch (Univ of Rouen), Prof K Wesel and Dr P. Bannas (Univ Medical center of Hamburg, Germany). The candidate will benefit from IRCAN technical core facilities (<https://ircan.org>, BIOBANK, Animal facility, Cytometry, Histology, Imaging, Genomics, etc).

Contract: Salary (CNRS grid) started 2200 €, net (depending on experience)
Starting: early 2023

Application process: The candidates can send a motivation letter, a short summary of achievements and mastered techniques, a *curriculum vitae* with publication and communication list and the names of (at least) two referees.

Applications should be sent by email to valerie.vouret@univ-cotedazur.fr
Indicate Post-doc Pur-Ther in the title of the email.