**Post doctoral researcher position in the Translational research and microfluidic team.**

Right in the earth of Paris, the Saints-Pères center, located in Saint-Germain des Prés, belongs to the Paris Descartes University. This university is a major actor of French public research, in particular in the field of medical and pharmaceutical research. The research in the university Paris Descartes is articulated around various scientific axis (ranging from physics to biology, chemistry and human sciences) and is conducted by more than 4000 scientists affiliated to more than 85 laboratories, which more particularly interact within federative (Federative Institutes of Research) or multidisciplinary structures (Paris Descartes University Institutes, top thematic focuses). MEPPOT (Personalized medicine, pharmacogenomics and therapeutic optimization, UMRS1147) hosting the recruiting team has an interdisciplinary culture and strong links with the Georges Pompidou European hospital (hEGP) as well as other hospital in Paris. It is hosting the CARPEM (Cancer research for personalized medicine) network allowing strong links with oncologists and clinicians.

The translational research and microfluidic team (TRAM) directed by Pr. Valérie Taly, aims at recruiting a post-doctoral researcher with strong experience in Microfluidics. This highly interdisplinary team is composed of scientists with biology, chemistry or physics backgrounds and works in very strong interaction with oncologists and clinicians. The researches conducted in the team are based on the miniaturization of biological and chemical reactions for cancer research with the aim of applying the developed tools and procedures in clinics. In particular, we develop and use digital microfluidics systems allowing to reach an unprecedented analysis throughputs and sensitivity. These systems are used for cancer research and this with three major axis: (i) The creation of new strategies allowing the non invasive detection of cancer biomarkers with applications in the field of personalized medicine, recurrence detection and finally cancer diagnosis; (ii) The discovery of new biomarkers; (iii) The development of new microfluidic platforms allowing to address fundamental questions in cancerology or toxicology.

We are looking for a highly motivated post-doctoral researcher with strong motivations for interdisciplinary research. The candidate should have a PhD in microfluidics and should be interested to get new experience in molecular biology and/or cell biology. It is important to mention that the candidate should not be a specialist in biology and would have strong support on this area from the other scientists from the team. The candidate should be prepared to interact with scientists from various backgrounds including chemists, biologists, oncologists or clinicians.

Previous involvements in an interdisciplinary project involving biological application would be a plus but is not mandatory. In particular, experiences in droplet-based microfluidics (especially its application for biology or chemistry) or microfluidic cell based analysis and screening or organ-on-chip technology would be an advantage (but not mandatory). The candidate will be in charge of new microfluidic developments in the team aiming at deciphering tumor heterogeneity and its implication for cancer resistance.

Curiosity, flexibility, autonomy, strong analytical and synthesis spirit are required as well as good interpersonal skills.

CV, letter of motivations and references should be send to V. Taly (valerie.taly@inserm.fr).