DEParray technology at Profilexpert

The genomic and microgenomic platform ProfileXpert (www.profilexpert.fr, SFR Santé Lyon-Est) and the company Silicon Biosystems (a subsidiary of the Menarini Group, a multinational pharmaceutical, biotechnology and diagnostics company based in Bologna, Italy : http://www.siliconbiosystems.com) are pleased to announce a seminar about the innovative Deparray technology. In this seminar, new applications of the technology will be presented (see flyer in attached file).

The conference will take place the
22nd of October 2019,
at the Faculté de Médecine et Pharmacie Rockefeller, room RAH-205
(the way will be indicated),
8 avenue Rockefeller, 69008 Lyon

and will be done by Dr Raimo TANZI Directeur développement Europe.

The seminar is free of charge but a confirmation of your participation to lachuer@univ-lyon1.fr or catherine.rey@inserm.fr will be appreciated.

Presentation of the technology:

The innovative DEPArray™ technology allows purification of multiple different types of cells (and rare cells) to be collected from a single sample. Target cells are identified by combinations of intracellular and extracellular markers, as well as with the use of morphological features such as circularity or size. Image-based selection ensures recovery of intact cells of interest, free of non-specific and false positive cells or contaminants. Isolated cells (individually or per group of interest) are subsequently analyzed for transcriptomic, epigenomics or genomics using PCR or NGS (Illumina sequencing).

Applications of DEPArray™ technology include:

- characterization of tumor biopsies and CTCs
- analysis of markers of epithelial-mesenchymal transition (EMT)
- understanding intracellular heterogeneity and clonal evolution in tumors
- recovery of clonal variants for xenograft and genetically engineered mouse (GEM) models
- Isolation of individual Nuclei and Neurons, Stem cells, etc…
- Isolation of infected cells

The technology allows the use of several types of samples: - Fixed cells - Live cells - Tissue biopsies (fresh, frozen, and FFPE) - Whole blood (CTCs) - Small cell loads (needle aspirates, pleural fluid, urine)

Joel LACHUER, PU
Directeur plateforme de génomique et microgénomique ProfileXpert (www.profilexpert.fr)
Centre de Recherche en Cancérologie de Lyon, & Responsable licence professionnelle de génomique (IUT Lyon1)
Tel. 04 78 77 28 89 portable 06 64 03 50 58 lachuer@univ-lyon1.fr