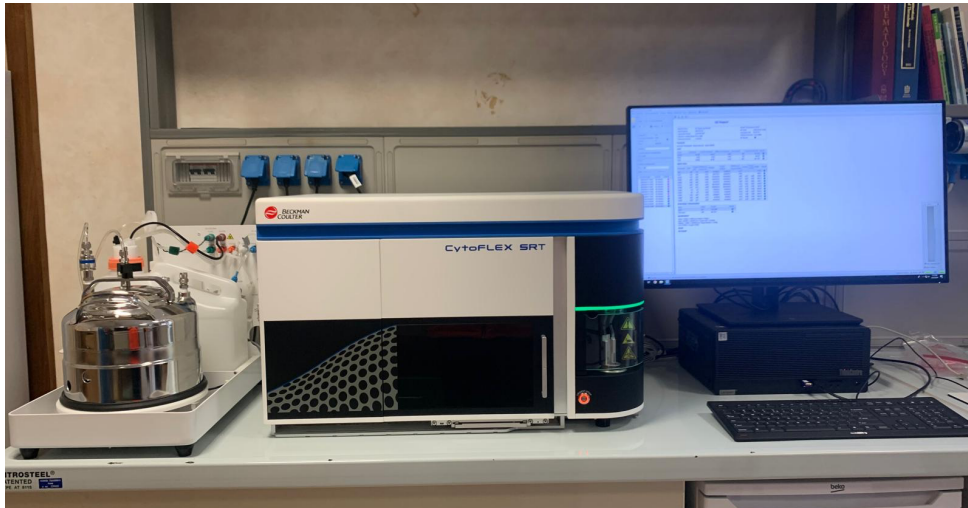


Report about the first trimester of the cytofluorimeter cell sorter CytoFLEX SRT (October – December, 2023)

Location: Department of Translational Medicine and New Technologies in Medicine and Surgery, Clinical Pathology Laboratory, University hospital of Santa Chiara, building 43.



General overview and management

The cytofluorimeter cell sorter CytoFLEX SRT was delivered on September 13th 2023 and the first technical course was held from the 9th to the 11th of October. The CytoFLEX SRT was under the responsibility of Prof. Maria Franzini, and the following persons have been trained to operate on the CytoFLEX SRT as independent users: prof. Maria Franzini (Associate professor, Dept. of Translational Medicine and New Technologies in Medicine and Surgery) dr. Federico Pratesi (Researcher, Dept. of Translational Medicine and New Technologies in Medicine and Surgery), dr. Silvia Ursino and dr. Vanessa Susini (laboratory technicians, Dept. of Translational Medicine and New Technologies in Medicine and Surgery)

Use of the machine

CytoFLEX SRT has been operated for 29 days, roughly equivalent to 174 hours. In this initial period we experienced some issues during the daily Quality Control (QC), in particular the DD1 parameter was unstable. During this first trimester, technical support intervened 3 times to fix the problem. However, within a few days of each intervention, the instability in the DD1 parameter reappeared. The final and decisive technical intervention was carried out on

2024.

When possible, lab Managements activities were carried out to familiarize with the instruments, and free-of-charge analysis were done within the PNRR program.