

ACTING

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ROOM A102

Silvestro Conticello

Responsabile della URT dell'IFC presso l'ISPRO

**CANCER
GENOMICS BY
THIRD
GENERATION
SEQUENCING
OF CELL FREE
DNA FROM
LIQUID BIOPSY**



In the “precision oncology” era, characterisation of tumour genetic features is a pivotal step in cancer patients’ management. In contrast to the invasiveness of biopsies, liquid biopsy -the analysis of circulating tumour DNA from plasma cell-free DNA- represents a promising option for disease monitoring, but its use has been limited either to specific subsets of biomarkers or by financial/logistical issues. In this part, I will show how shallow Whole genome Sequencing using Nanopore technology represents a competitive approach for cfDNA analysis, through which multiple features, both genetic and epigenetic can be extracted and exploited.



**UNIVERSITÀ
DI TRENTO**

Dipartimento di
Biologia Cellulare,
Computazionale e Integrata - CIBIO