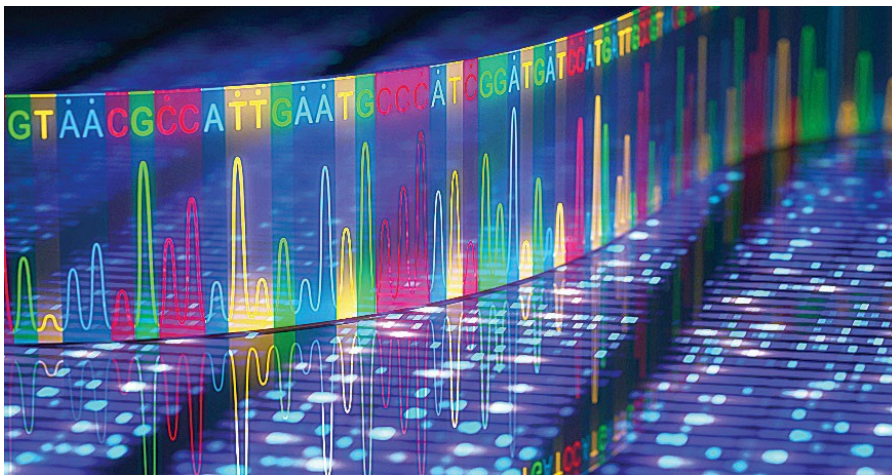


DEP Surfing for multiplexed biomarker analysis



Ref. Nr

6.2121

Keywords

RNA-seq, gene expression analysis, screening, biomarker discovery

Intellectual Property

PCT/EP2020/077437
 Priority 30/09/2020

Publications

<https://doi.org/10.1186/s13059-019-1671-x>

Date

19/01/2023

Description

High-throughput RNA sequencing with efficient pre-pooling steps is necessary to reduce experimental time and costs.

This technology allows to prepare cDNA libraries from pooled RNA samples. The quantity of each bulk sample within a library is controlled and normalized for efficient bulk RNA high-throughput sequencing.

Such a cDNA library can be made of a plurality of sample-specific barcoded cDNAs, corresponding to a unique bulk mRNA sample defined by its specific barcode and wherein the contribution of each sample in the cDNA library is the same. The technology can be performed with a kit for RNA sequencing, using biotinylated and barcoded oligo-dT primers and streptavidin magnetic beads, optionally pre-functionalized with the barcoded cDNA.

Advantages

- Reduction of steps, time and costs in preparation of cDNA libraries for high-throughput sequences
- Set of oligo-dT primers provided

Applications

- Single cell RNA sequencing
- High-throughput sequencing, analysis
- Personalized diagnosis, prognosis
- Generation of *big RNA* data