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(54) Title: SEQUENCE-SPECIFIC TARGETED TRANSPOSITION AND SELECTION AND SORTING OF NUCLEIC ACIDS

SC "omic" sorting and enrichment method overview

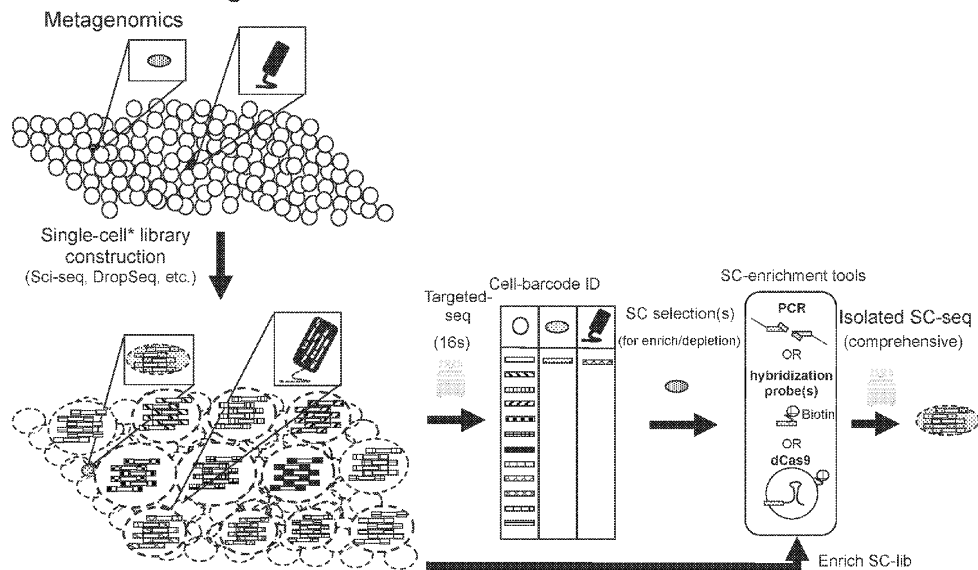


Fig. 3

(57) Abstract: A variety of different types of targeted transposome complexes are described herein that may be used to mediate sequence-specific targeted transposition of nucleic acids. Also described herein is a method of characterizing desired samples in a mixed pool of samples comprising both desired samples and unwanted samples comprising, to produce sequencing data from double-stranded nucleic acid, initially sequencing a library comprising a plurality of nucleic acid samples from a mixed pool, wherein each nucleic acid library comprises nucleic acids from a single sample and a unique sample barcode to distinguish the nucleic acids from the single sample from the nucleic acids from other samples in the library; analyzing the sequencing data and identifying unique sample barcodes associated with sequencing data from desired samples; performing a selection step on the library comprising enriching nucleic acid samples from desired samples and/or depleting nucleic acid samples from unwanted samples; and resequencing the nucleic acid library.

[Continued on next page]

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