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(54) Title: SINGLE CELL ANALYSIS OF TRANSPOSASE ACCESSIBLE CHROMATIN

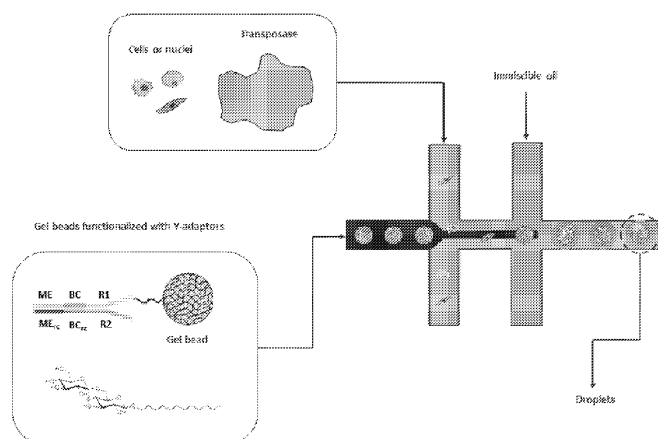


FIG. 10

(57) **Abstract:** Methods and systems for sample preparation techniques that allow amplification (e.g., whole genome amplification) and sequencing of chromatin accessible regions of single cells are provided. The methods and systems generally operate by forming or providing partitions (e.g., droplets or wells) including a single biological particle (e.g., a cell) and a single solid or semi-solid particle (e.g., bead) comprising a barcoded oligonucleotide. The preparation of barcoded next-generation sequencing libraries prepared from a single cell is facilitated by the transposon-mediated transposition and fragmentation of a target nucleic acid sequence. The methods and systems may be configured to allow the implementation of single-operation or multi-operation chemical and/or biochemical processing within the partitions.

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