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(54) **Title:** HIGH-THROUGHPUT SINGLE-NUCLEI AND SINGLE-CELL LIBRARIES AND METHODS OF MAKING AND OF USING

(57) **Abstract:** Provided herein are methods for preparing a sequencing library that includes nucleic acids from a plurality of single cells. In one embodiment, the method includes nuclear or cellular hashing which permits increased sample throughput and increased doublet detection at high collision rates. In one embodiment, the method includes normalization hashing which aids in estimating and removing technical noise in cell to cell variation and increases sensitivity and specificity.