ABSTRACT

The present invention belongs to the technical field of biology, and particularly relates to a method for treating a tissue sample and a method for high-throughput transcriptome sequencing of a single-cell subcellular structure. During preliminary sample treatment for single-cell sequencing, a pre-permeabilization treatment is performed on the tissue to enhance the permeability of biological membranes in the tissue, and then labeling and adapter addition are performed on the RNAs in the tissue block. The operations on the tissue in the provided method avoid various problems caused by the extensive centrifugation process during the treatment of a subcellular structure. The obtained subcellular structure is highly conducive to high-throughput transcriptome sequencing of a single-cell subcellular structure, and thus has great practical value.

[FIG. 1]