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(54) Title: A METHOD OF DETERMINING A STRUCTURE OF RIBONUCLEIC ACID MOLECULES AND RELATED KITS

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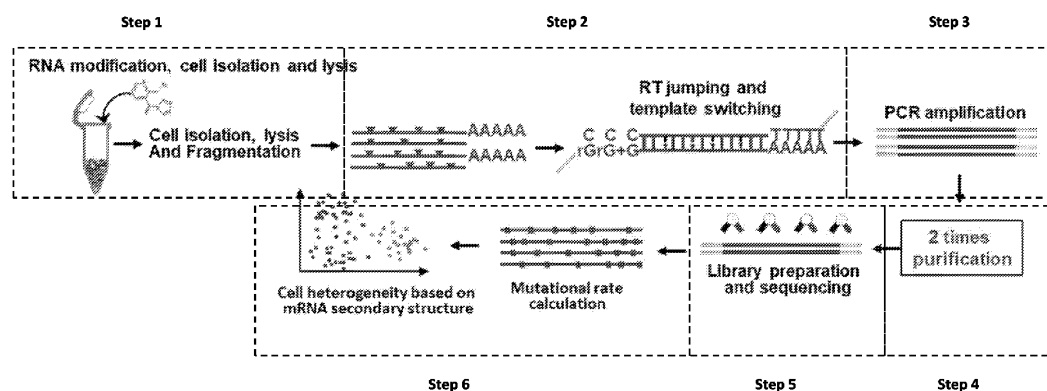


FIG. 2

(57) Abstract: The invention relates to a method of determining a structure of ribonucleic acid (RNA) molecules, the method comprising: contacting the RNA molecules with a modifying agent to obtain modified RNA molecules; reverse transcribing the modified RNA molecules; sequencing the product obtained from the preceding step to generate sequencing reads; and analysing the sequencing reads to determine the structure of the RNA molecules. In a preferred embodiment, the RNA molecules consist of RNA molecules of a single cell, and the modifying agent is 2- methyl nicotinic acid imidazolidine-azide (NAI-N3). There is also provided a method of classifying cells into one or more cell populations, the method comprising: determining the structure of RNA molecules in each cell; and classifying the cells into one or more cell populations based on similarity in the structure of their RNA molecules.

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