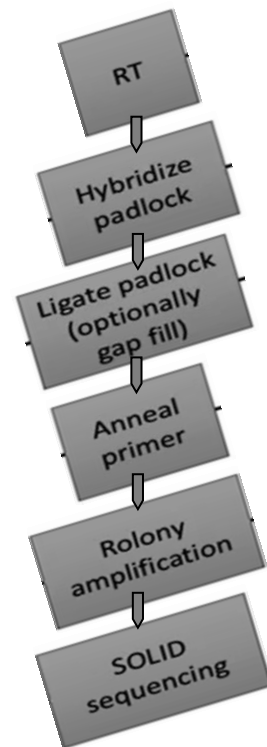


In Situ Sequencing

Direct sequence of mRNA in a section of Fixed Tissue

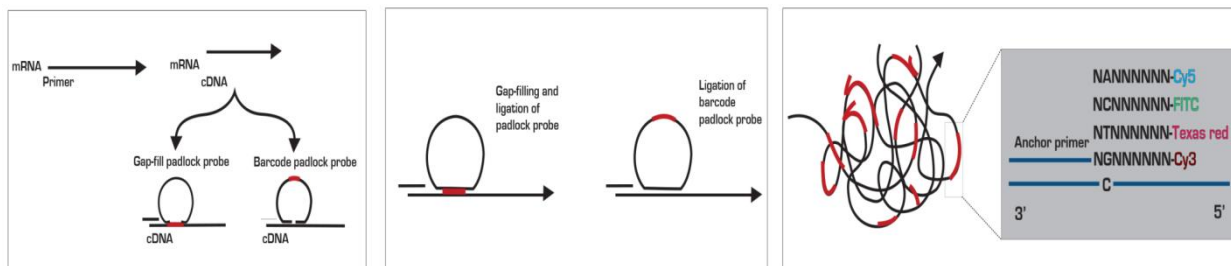
In Situ sequencing (ISS) is a new method by which mRNA is sequenced directly in a section of fixed tissue or cell sample. This differs from conventional sequencing, which analyzes samples after removing them from their endogenous information. The method uses four fluorescent dyes to indicate nucleic acid bases, padlock probes for RNAs of interest and enzymes that catalyze the formation of circularized DNA at the locations of the padlock probes in a mechanism called rolling circle amplification. The ability to generate mRNA expression profiles with location information within tissues is a powerful tool.

BioGenex Nano VIP[®] offer automated In Situ Sequencing and Fluorescence in-situ sequencing (FISSEQ).



In Situ Sequencing ADVANTAGES

- The key to ISS's power is the linkage between sequencing information and its location, even subcellular location.
- Leading to gene expression analysis with read lengths of over 300 bases in only one day of imaging.



For more Information:

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