**HOW NANOSTRING WORKS**

1. **HYBRIDIZATION**

   Using molecular barcode technology, RNA is directly tagged with a capture probe and reporter probe that are specific to the target of interest. This creates a unique target-probe complex.

2. **PURIFICATION**

   After hybridization, excess probes are removed, leaving only purified target-probe complexes.

3. **IMMOBILIZATION**

   These purified target-probe complexes are immobilized and aligned on the imaging surface (nCounter cartridge).

4. **COUNTING**

   The sample is then scanned by an automated fluorescence microscope where labeled barcodes are directly counted and the data analyzed through an intuitive analysis software.

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**NEED HELP WITH YOUR GENE EXPRESSION EXPERIMENT?**

Canopy Biosciences is an experienced service provider specializing in NanoString, nucleic acid extractions, sequencing, and cell line engineering. Learn more on our website or request a quote today.