

RNA FISH technology, 4/13:87

Biosearch Technologies has acquired exclusive worldwide rights to continuing Stellaris RNA FISH-based inventions from the University of Medicine and Dentistry of New Jersey. In addition to single-molecule detection of mRNA, lncRNA, and viral RNAs, Stellaris-based methods have been extended to directly and quantitatively detect chromosomal diseases caused by translocations and aberrant splice junctions and single-nucleotide polymorphisms.

“Chromosomal paints are just the latest in a series of continuing developments of Stellaris-based tools,” Arjun Raj, co-inventor of the Stellaris-based RNA FISH technology, said in a statement. “We believe our chromosomal paints will provide a simple and effective method for visualizing chromosome structure, while simultaneously detecting mRNA levels in single cells.”

The single-molecule sensitivity afforded by Stellaris probes is providing insight into diverse biological processes ranging from RNA localization to RNA processing to assessing noise in gene expression, Sanjay Tyagi, co-inventor of the technology, said in a statement. “The availability of prelabeled sets of probes from Biosearch is a tremendous help to cell biologists, who no longer need to be concerned with the complexities of probe selection and probe chemistry.”

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