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Fast-FISH using repeat sequence-depleted painting probes from microdissected DNA. H. He¹,

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There is currently an increasing demand by researchers and clinicians for high quality FISH painting probes that aid in the diagnosis of cancer and hereditary diseases. We have designed a novel method of removing repetitive sequences from microdissected probes resulting in products that are more specific and are easier to use. We named our repetitive sequence-depleted probes "ReSeD Probes". We tested our ReSeD probes of 5p, 9q, 12p, 15q and a few band specific probes in Fast-FISH. When used on metaphase chromosomes and interphase cells, the ReSeD probes produced strong, uniform, and specific hybridization signals with little background staining in only 30 minutes of hybridization. Dual-color Fast-FISH also produced comparable results. These new probes will make Fast-FISH a useful tool for the research and clinical community and allow faster turn around time for individual FISH cases.