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(54) Title: HYBRIDIZATION CAPTURE METHODS AND COMPOSITIONS

(57) Abstract: Described herein are methods and compositions for improved hybridization capture for enriching for target nucleic acid sequences from a population of nucleic acids. In one aspect, the methods and compositions are useful for Next Generation Sequencing (NGS) applications. The methods and compositions include combining in solution capture probes and target nucleic acid and permitting hybridization of the target nucleic acid to the capture probes under conditions to promote efficient hybridization. Following hybridization, the probe/target complex is immobilized to a capture material while simultaneously incubating at an optimum hybridization temperature. The incubation denatures unwanted nucleic acids from the capture probes further enriching for target nucleic acid.



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