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(54) Title: POLYNUCLEOTIDE LIBRARIES HAVING CONTROLLED STOICHIOMETRY AND SYNTHESIS THEREOF

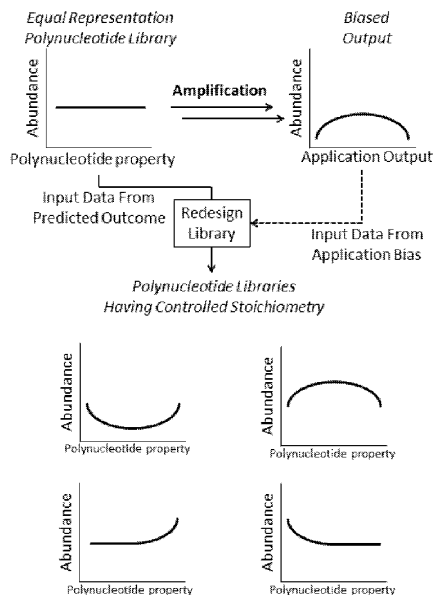


FIG. 1A

(57) Abstract: Provided herein are compositions, methods and systems relating to libraries of polynucleotides having preselected stoichiometry with regard to species of polynucleotides such that the libraries allow for predetermined application outcomes, e.g., controlled representation after amplification and uniform enrichment after binding to target sequences. Further provided herein are polynucleotide probes and applications thereof for uniform and accurate next generation sequencing.

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