Motif Construction from High-Throughput SELEX Data (Invited Keynote Talk)

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Systematic evolution of ligands by exponential enrichment (SELEX) is an *in vitro* selection–amplification approach that can be used to produce generations of samples of sequences that are affine to some transcription factor. High-affinity sequences are enriched in this process. Combined with high-throughput sequencing, SELEX yields large sets of affine sequences from which binding affinity models such as positional weight matrices (PWMs) can be estimated. The talk will describe some recent developments in identifying various affinity models from SELEX data.

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