

What is the BioPACIFIC MIP Machine Assisted Product Screening (MAPS) Tool?

The MAPS tool bridges an unexplored gap between synthetic biology and chemistry to enable researchers to search for bio-derived polymers through knowledge retrieval and ML-driven monomer prediction. This tool gathers information about chemical compounds in the natural product space to evaluate them for their potential as polymer building blocks.

This tool solicits knowledge (Fig 1) from a wide range of domain experts to gain insights about which chemical properties make for a good monomer.



Fig 1. MAPS user interface for evaluating monomer quality.

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