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 via an intuitive user interface (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.

The MAPS tool is available as a web application and will soon be available as a mobile application for iOS, available through the App Store. Users of the MAPS tool must have a registered BioPACIFIC MIP user account (see: **portal**) and, for the mobile application, will need to validate their credentials via ORCID.

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