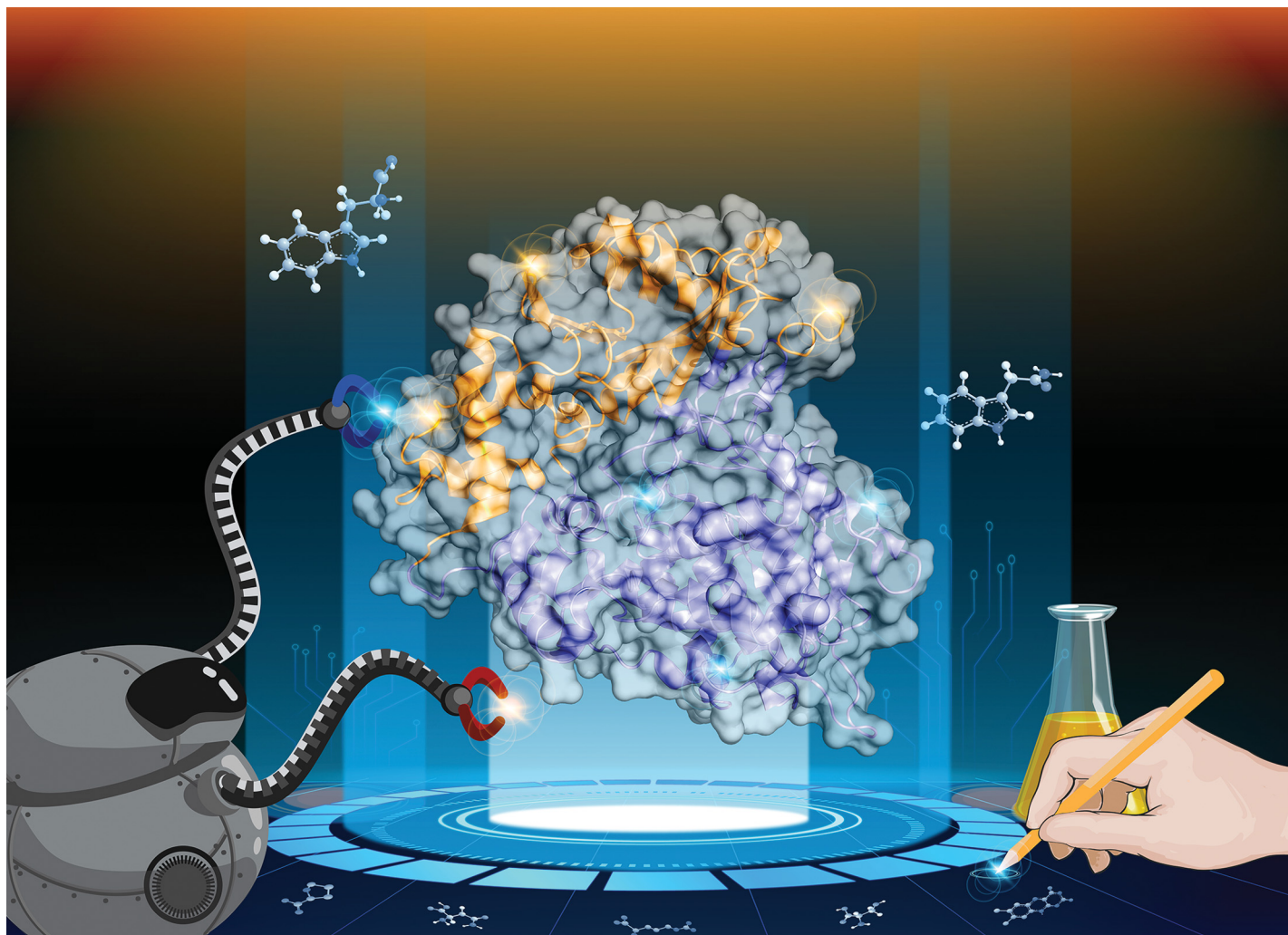




Showcasing research from Professor Pimchai Chaiyen's laboratory, School of Biomolecular Science and Engineering, Vidyasirimedhi Institute of Science and Technology (VISTEC), Thailand.

Enhancement of tryptophan 2-monooxygenase thermostability by semi-rational enzyme engineering: a strategic design to minimize experimental investigation

A semi-rational and strategic-design approach was used to engineer tryptophan 2-monooxygenase (TMO) to obtain thermostable variants with the same activity as the wild-type enzyme. The employed approach was efficient since the publicly available computational tools were used and performed site-saturation mutagenesis at only seven residues. It showcases a strategic design for performing efficient enzyme engineering with minimal experimental effort.

As featured in:



See Pimchai Chaiyen *et al.*,
RSC Chem. Biol., 2024, 5, 989.