

Allosteric Regulation Engineering is a focused field dedicated to unraveling the complexities of enzymes. It entails modifying enzymes to adjust their reaction to molecules binding at sites beyond their active sites—an essential process known as allosteric regulation. This mechanism underpins many biological functions and carries considerable significance across multiple industries. By influencing enzyme behavior, we can leverage them for various practical purposes, such as drug discovery, biochemical production, and disease treatment.