

## Machine learning driven web-based app platform for the discovery of monoamine oxidase B inhibitors



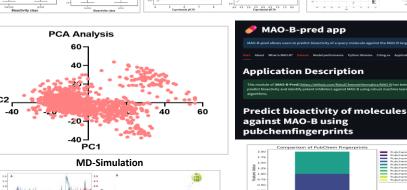
## Sunil Kumar\*, Ratul Bhowmik, Hoon Kim & Bijo Mathew

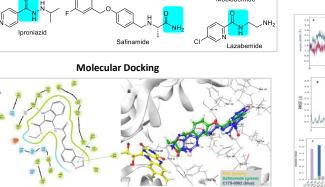
Department of Pharmaceutical Chemistry, Amrita School of Pharmacy, Amrita Institute of Medical Sciences and Research Centre, AIMS Health Science Campus, Amrita Vishwa Vidyapeetham, Kochi 682041, Kerala, India.

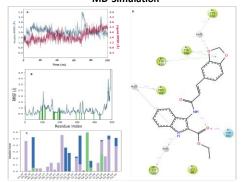
# **Graphical Abstract** eployment using 3 different nodel generation and

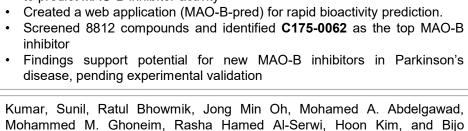
Introduction

## **Exploratory Data Analysis** Regression plots 2D, 3D PCA Plot

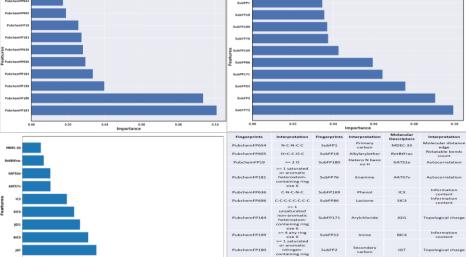








Results



Interpretation and ML-QSAR model

### Conclusion

- Developed ML-QSAR models using fingerprints and molecular descriptors to predict MAO-B inhibitor activity

- Findings support potential for new MAO-B inhibitors in Parkinson's

Mathew. "Machine learning driven web-based app platform for the discovery of monoamine oxidase B inhibitors." Scientific Reports 14, no. 1 (2024): 4868.