



Showcasing research from Professor Calvin Yu-Chian Chen's laboratory, Artificial Intelligence Medical Research Center, School of Intelligent Systems Engineering, Shenzhen Campus of Sun Yat-sen University, Shenzhen, Guangdong 518107, P. R. China.

TCMBank: bridges between the largest herbal medicines, chemical ingredients, target proteins, and associated diseases with intelligence text mining

We developed TCMBank (<https://TCMBank.CN/>), the largest systematic free TCM database, which is an extension of TCM Database@Taiwan. TCMBank contains 9192 herbs, 61,966 unduplicated ingredients, 15,179 targets, 32,529 diseases, and their pairwise relationships. In addition, we developed an ensemble learning-based drug discovery protocol for identifying potential leads and drug repurposing. Using TCMBank, researchers can view literature-driven relationship mapping between herbs/ingredients and genes/diseases, allowing the understanding of molecular action mechanisms for ingredients and identification of new potentially effective treatments.

As featured in:



See Calvin Yu-Chian Chen *et al.*, *Chem. Sci.*, 2023, **14**, 10684.