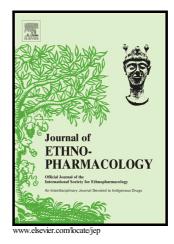
Author's Accepted Manuscript

Network pharmacology-based strategy for predicting active ingredients and potential targets of Yangxinshi tablet for treating heart failure

Langdong Chen, Yan Cao, Hai Zhang, Diya Lv, Yahong Zhao, Yanjun Liu, Guan Ye, Yifeng Chai



PII:S0378-8741(17)32090-1DOI:https://doi.org/10.1016/j.jep.2017.12.011Reference:JEP11142

To appear in: Journal of Ethnopharmacology

Received date: 2 June 2017 Revised date: 14 November 2017 Accepted date: 11 December 2017

Cite this article as: Langdong Chen, Yan Cao, Hai Zhang, Diya Lv, Yahong Zhao, Yanjun Liu, Guan Ye and Yifeng Chai, Network pharmacology-based strategy for predicting active ingredients and potential targets of Yangxinshi tablet for treating heart failure, *Journal of Ethnopharmacology*, https://doi.org/10.1016/j.jep.2017.12.011

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

pharmacology-based strategy predicting Network for active ingredients and potential targets of Yangxinshi tablet for treating heart failure

Langdong Chen^{a1}, Yan Cao^{a1}, Hai Zhang^b, Diya Lv^a, Yahong Zhao^c, Yanjun Liu^c,

Guan Ye^{c*}, Yifeng Chai^{a*}

^aSchool of Pharmacy, Second Military Medical University, Shanghai 200433, China ^bDepartment of Pharmacy, Shanghai First Maternity and Infant Hospital, Tongji University School of Medicine, Shanghai 201204, China ^cCentral Research Institute, Shanghai Pharmaceuticals Holding Co. Ltd., Shanghai 201203, China; yeg@sphchina.com (G. Ye) nuscrin yfchai@smmu.edu.cn (Y. Chai).

*Corresponding authors.

Abstract:

Ethnopharmacological relevance:

Yangxinshi tablet (YXST) is an effective treatment for heart failure and myocardial infarction; it consists of 13 herbal medicines formulated according to traditional Chinese Medicine (TCM) practices. It has been used for the treatment of cardiovascular disease for many years in China.

Materials and Methods:

In this study, a network pharmacology-based strategy was used to elucidate the mechanism of action of YXST for the treatment of heart failure. Cardiovascular disease-related protein target and compound databases were constructed for YXST. A molecular docking platform was used to predict the protein targets of YXST. The affinity between proteins and ingredients was determined using surface plasmon

¹ These two authors contributed equally to this work.

Download English Version:

https://daneshyari.com/en/article/8532373

Download Persian Version:

https://daneshyari.com/article/8532373

Daneshyari.com