



## The roll of computational methods in Traditional Chinese Medicine (TCM) with an approach to Traditional Iranian Medicine (TIM)

Nasibeh Chanarani<sup>a</sup>, Abbasali Emamjomeh<sup>b\*</sup>, Parisa Hasanein<sup>c</sup>

a. PhD student, Department of Plant Breeding and Biotechnology, University of Zabol, 9861335856, Iran

b. Laboratory of Computational Biotechnology and Bioinformatics (CBB Lab), Department of Bioinformatics, University of Zabol, Zabol, 9861335856, Iran

c. Department of Biology, University of Zabol, Zabol, 9861335856, Iran

\*aliimamjomeh@uoz.ac.ir

**Abstract:** According to WHO strategy for improving the quality of disease treatment, old but useful remedies should be integrated with modern medical methods. Traditional Chinese medicine has been used to treat diseases for more than 4000 years but recently has been focused around the world because of its efficiency in treatment of a wide range of diseases as well as having lower side effects [1]. Traditional Chinese medicine was established based on philosophical frameworks such as the Yin-Yang and Zang Fu theories [2]. For this reason, traditional Chinese medicine resources were studied and classified by computational methods. Furthermore, differences and similarities with western therapeutic approaches were reported. In answer to the challenge of increased uses of traditional Chinese medicine, many databases were developed. These databases consist of formulations of medicine sources, side effects, physical characteristics, molecular properties, 3D structures and their application [3]. In this study, we evaluated and compared some of the more important of these databases. These databases not only simplify the understanding of traditional Chinese medicine therapy mechanisms and genes interaction, but also are useful for modern therapeutic studies. Traditional Iranian medicine with a long and old history has been used in prevention, diagnosis, treatment, and elimination of diseases [4]. The principles and methods used for diagnosis and treatment in traditional Iranian and Chinese medicine are very different [5]. On the other hand, there aren't any specialized databases containing information about traditional Iranian medicine. Therefore, here we can suggest developing of traditional Iranian medicine databases by computational method.

**Keywords:** Traditional medicine methods; data and text mining; computational methods

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