

Research Article

Study on the Characteristics of Traditional Chinese Medicine Syndromes in Patients with Erosive Gastritis Based on Metabolomics

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According to traditional Chinese medicine theory, tongue coatings reflect changes in the body. The goal of this study was to identify a metabolite or a set of metabolites capable of classifying characteristics of traditional Chinese medicine syndromes in erosine gastritis. In this study, we collected tongue coatings of patients with erosine gastritis with damp-heat syndrome (BRS), liver depression and qi stagnation syndrome (LDQSS), and healthy volunteers. Then, we analyzed the differences in metabolic characteristics between the two groups based on metabolomics. We identified 14 potential biomarkers related to the DRS group, and six metabolic pathways were enriched. The differential pathways included pyrimidine metabolism, pantothenate and CoA biosynthesis, citrate cycle (TCA cycle), pyravate metabolism, glycolysis/gluconeogenesis, and purine metabolism. Similarly, in the LDQSS group, we identified 25 potential biomarkers and 18 metabolic pathways were enriched. The top five pathways were the TCA cycle, sphingolipid metabolism, fatty acid biosynthesis, pantothenate and CoA biosynthesis, and the pentose phosphate pathway. In conclusion, the DRS group and the LDQSS group have different characteristics.

1. Introduction

Erosive gastritis (EG) is one of the most common diseases in the world [1]. Currently, the main diagnostic method for EG is electronic gastroscopy [2]. However, this method is often too invasive for patients to tolerate [3]. EG causes great trouble, although it generally does not endanger the life of patients. Therefore, it is worth exploring a simple and noninvasive diagnostic method to identify the characteristics of EG.

According to traditional Chinese medicine theory, tongue coatings reflect changes in the body [4, 5]. Based on this theory, it has been found that tongue features can be used as a stable method for disease diagnosis [6]. Tongue coating evaluation is sometimes even significantly superior to the use of traditional blood biomarkers [7]. In accordance with this theory, EG can be classified into two distinct syndromes damp-heat syndrome (DFS) and liver depression and qi stagnation syndrome (LDQSS) [8]. Based on the different EG syndromes, traditional Chinese medicine (TCM) can provide more effective personalized treatment according to the features of each syndrome [9]. While previous studies have focused on bacteria from different tongue coatings in EG, variations in their metabolites remain unknown.

As a sensitive indicator for judging the condition of EG, tongue coatings play a pivotal role in the effective diagnosis and treatment [10]. Due to the comprehensive, highly sensitive, specific, and noninvasive nature of metabolomics,

Syndromes Of Traditional Chinese Medicine

Dan Jiang, Fanyi Meng, Kerry Webster

Syndromes Of Traditional Chinese Medicine:

Syndromes in Traditional Chinese Medicine Henry C. Lu, 2013-01-22 This book lists hundreds of syndromes with most of them accompanied by definition tongue pulses major signs median signs minor signs Western diseases analysis and treatment Under treatment there are formulas herbs foods and acupuncture to consider for application Diagnosis of Syndromes in Traditional Chinese Medicine Henry C. Lu, 2013-01-22 In traditional Chinese medicine a doctor will treat syndromes not diseases or symptoms or clinical signs and for that reason the objective of diagnosis is to establish the syndrome involved in each clinical case and treat it accordingly A Chinese doctor relies very heavily on the clinical signs to identify the syndrome involved The method of diagnosis introduced in this book may be compared to voting during an election The syndrome that shows the highest number of votes is to be selected as the syndrome to be treated in a particular clinical case Clinical Medical Syndromes in Traditional Chinese Medicine Dr. Inchauspe Adrián Ángel, 2018-09-21 It contemplates the cosmological theories that determine Chinese Medicine the Eight principles that regulate Traditional Chinese Medicine the typical clinical semiological criteria and the detailed description of the organic and functional syndromes of Chinese Medicine The text ends by describing the criterion of involvement of the acupuncture vessel Clinical Medical Syndromes in Traditional Chinese Medicine Inchauspe in various medical nosological conditions Adrián Ángel, 2018-09 Traditional Chinese Medicine In The Treatment Of Post-covid-19 Syndrome Dan Jiang, Fanyi Meng, Kerry Webster, 2023-06-15 The COVID 19 pandemic dominated the globe for at least three years and infected a large proportion of the worldwide population After the acute infection many stay in poor health for months The nature of this aftermath is not yet fully understood therefore the management of this syndrome through biomedical therapy is not ideal Health services are struggling to help those who are still suffering The condition has now been recognised as post COVID 19 syndrome PCS providing a common platform for academic exchange Traditional Chinese Medicine TCM has been applied to similar conditions for over 2 000 years including in the aftermath of previous pandemics and this understanding of such conditions has been validated in clinical practice In TCM patterns are established to group the weakness the residue of pathogens or interaction between pathogens and the defence system Those patterns form the framework for understanding the illness after acute infections. The authors use this ancient understanding in their own contemporary practice which is particularly rewarding when the illness within PCS is treated with acupuncture Chinese herbs and other therapies in tandem This is the holistic TCM approach strongly recommended by the authors as they demonstrate great outcomes The whole system TCM approach for PCS is now presented in this book to health professions for PCS This book has been awarded 2023 International Contribution Award of Chinese Medicine Works Award issued by the World Federation of Chinese Medicine Societies The Reasoning Of Traditional Chinese Medicine Song Xuan Ke, 2022-12-27 Awarded the International Contribution to Chinese Medicine accolade at the 2023 World Congress of Traditional Chinese Medicine This book is

intended as an introduction to Traditional Chinese Medicine TCM for students practitioners or lay people with a general interest in Chinese medicine It provides a clear and compact delivery of TCM s reasoning history philosophy theory and treatment principles The author has approached this from the perspective of the reasoning behind Chinese medicine its philosophical foundations and its approach to treatment The text is accompanied by clear and bold graphical illustrations to allow for an easier understanding Systems Biology for Traditional Chinese Medicine Guoan Luo, Yiming Wang, Qionglin Liang, Qingfei Liu, 2012-07-03 The application of systems biology methods to Traditional Chinese Medicine Emphasizing the harmony of the human body with the environment Traditional Chinese Medicine TCM has evolved over thousands of years It is a systemic theory derived from clinical experience the philosophy of holism and systematology and the belief that man is an integral part of nature Systems Biology for Traditional Chinese Medicine describes how the latest methods in systems biology can be applied to TCM providing a comprehensive resource for the modernization and advancement of TCM as well as general drug discovery efforts It is the first comprehensive work to propose a system to system research methodology to study the interaction between TCM and the human body and its applications in drug research and development Using three popular traditional Chinese medicines Shuanglongfang Qingkailing and Liushenwan as examples the authors set forth case examples demonstrating how to find material groups perform efficacy screenings and conduct safety evaluations of TCM The book also Describes the mechanisms of TCM at the molecular and systems levels using chemomics genomics proteomics metabolomics and bioinformatics Places modern scientific technologies within the context of TCM helping drug researchers improve experimental designs and strategies Illustrates how a systems biology approach is compatible with TCM s traditional holistic therapeutic strategies and treatment modalities Presents topics of current interest such as integrated global systems biology and the application of chemometrics research to herbal medicines This book not only opens a new pathway for the continued development of TCM but also for systems biology In addition it fosters collaboration and discussion among Eastern and Western scientists by applying systems biology to TCM The Mapping between Traditional Chinese Medicine and Signaling Molecules Yang Liu, 2022-06-28 The fundamental molecules in the human body are sodium calcium and potassium while the vital substances of traditional Chinese medicine TCM are Qi Yang Qi and Yin Qi This book identifies the mappings between 48 TCM vital substances and signaling molecules TCM practitioners have proven successful in alleviating the symptoms of a wide range of conditions from arthritis to diabetes By applying these mappings this book thoroughly explores these claims and succinctly explains the molecular mechanism behind the practice The communication and mutual support between eastern and western medicines would provide a thorough understanding of human physiology and enable more effective treatment of abnormal or disease states

Traditional Chinese Medicine (TCM): A multi target approach to complex cardiovascular disease - Volume I Jing-Yan Han, Gerald A. Meininger, 2021-07-29 A General Introduction to Traditional Chinese Medicine Men Jiuzhang,Guo Lei,2009-11-12 Established by the Western Han dynasty more than 2 000 years ago Traditional Chinese Medicine TCM is currently finding increased acceptance A General Introduction to Traditional Chinese Medicine explores the thinking behind TCM its philosophy based theory and its cutting edge uses in today s clinical practice The book covers Establishment an

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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Syndromes Of Traditional Chinese Medicine**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Syndromes Of Traditional Chinese Medicine Introduction

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