

特别关注:

DNA宏条形码及其在混合中草药物种鉴定中的应用

随着高通量测序技术的快速发展，DNA宏条形码（DNA metabarcoding）在DNA barcoding条形码技术基础上应运而生，为混合中草药物种鉴定困难提供了有力的手段。该文汇总了目前该技术在混合中草药组分鉴定研究中已取得的应用进展，重点比较Sanger一代、二代及三代高通量测序技术在混合中草药鉴定中的优劣性，并展望该技术在混合中草药产品鉴定中的应用前景。

中国 中药 杂志

China Journal of
Chinese Materia Medica

第44卷 第1期
Vol. 44 No. 1

2019/1



中国中文核心期刊
中国科技核心期刊
CSCD来源期刊



关注杂志官方微信



目 次

· 综述 ·

DNA 宏条形码及其在混合中草药物种鉴定中的应用

刘志香, 徐江, 孙伟, 师玉华, 陈士林 (1)

中药及其有效成分在抗癫痫中的作用与机制

袁旭, 李政, 王晓天, 李向阳, 华慧, 李小翠, 汤仁仙, 刘晓梅 (9)

天然产物抗癌研究进展

尹婕, 李琦, 孙立东, 杨庆, 赵正, 冉庆森, 翁小刚, 陈颖, 王娅杰, 李玉洁, 蔡维艳, 朱晓新 (19)

中药临方制剂技术的发展现状及研究策略

胡志强, 鲜洁晨, 楚世慈, 王健英, 沈岚, 张磊, 洪燕龙 (28)

中药对肠道菌群的调节作用

于岚, 邢志凯, 米双利, 吴霞 (34)

亲和色谱及其数学模型在中药活性成分研究中的应用

陈昱初, 赵露, 徐希明, 余江南, 童珊珊 (40)

中药材农药残留研究现状

李慧君, 张文生, 吴洁珊, 辛文锋 (48)

· 资源与鉴定 ·

铁皮石斛栽培居群农艺性状的聚类分析

余文霞, 董晓曼, 雷霄熙, 袁媛, 顺庆生, 魏刚, 俞年军, 黄润平, 吴倩文 (53)

遮阴对多花黄精生长及光合特性的影响

梁永富, 易家宁, 王康才, 薛启, 隋利 (59)

全国资源普查女贞子药材质量特征关系探究及对《中国药典》女贞子药材标准规定的思考

刘欢, 熊慧, 薛雪, 刘梦楠, 王海丽, 刘薇, 魏锋, 李向日 (68)

· 分子生物学 ·

广藿香青枯病菌 Tn5 转座子插入突变体的构建

王亚琴, 张宇瑶, 贺红, 李颀, 邓志成, 金华, 黎广卫 (77)

· 制剂与炮制 ·

基于 ICP-MS 和对照制剂的牛黄清胃丸中重金属及有害元素残留量测定及风险评估

聂黎行, 查祎凡, 左甜甜, 金红宇, 于健东, 戴忠, 马双成 (82)

· 化学 ·

构树黄酮类化合物及其 PTP1B 抑制活性研究

楼洋, 苏诗韵, 李亚楠, 雷春, 李静雅, 侯爱君 (88)

海南栽培肾茶中 1 个新的桉烷型倍半萜

陈惠琴, 张荣荣, 梅文莉, 蔡彩虹, 盖翠娟, 于旭东, 戴好富 (95)

UPLC 比较金银花、忍冬藤和忍冬叶中 11 种活性成分的含量

田伟, 范帅帅, 甄亚钦, 冯玉, 陈钟, 牛丽颖 (100)

天冬走油的相关因素分析及限量标准的制定

吴翠, 马玉翠, 徐靓, 李瑞琦, 巢志茂 (106)

· 药理 ·

益气通络颗粒促气虚血瘀证脑梗大鼠血管新生的作用研究

薛冰洁, 黄吉生, 马博, 郝婷婷, 刘建勋 (112)

β -咔啉类生物碱抑制 SGC-7901 细胞迁移和侵袭的机制研究

席涛, 夏欢, 樊玉祥, 曹永成, 张洪亮 (119)

黄连提取物体外对白念珠菌丝侵袭的抑制作用

牛会侠, 段强军, 施高翔, 吴大强, 邵菁, 汪天明, 汪长中 (125)

转录组学探讨附子治疗急性心衰大鼠的作用机制

汪颀浩, 高继海, 陈海媚, 谢晓芳, 彭成 (131)

益气活血中药配伍对慢性间歇性低氧复合胰岛素抵抗介导的动脉粥样硬化动物模型的干预效应

马林沁, 张京春, 刘玥, 乔羽, 孙欣丽, 雷舒雁, 郑乔仙, 毛婷 (141)

基于组效关系的龙血通络胶囊抗缺血性脑损伤活性成分研究

孙晶, 陈孝男, 刘佳妮, 管朋维, 王超超, 潘勃, 庞道然, 李珊珊, 郑姣, 黄文哲, 屠鹏飞, 李军 (150)

· 药代动力学 ·

基于脂质组学的去甲斑蝥酸钠对 LO2 肝细胞脂代谢影响的研究

赵利娟, 司南, 高波, 魏晓露, 王彦礼, 赵海誉, 边宝林 (158)

白及有效部位中主要成分在 Caco-2 细胞中的吸收特性研究

杨淑婷, 潘洁, 陆苑, 梅朝叶, 刘亭, 黄勇, 王永林 (167)

· 临床 ·

基于 IL-23/Th17 探讨清营汤治疗银屑病血热证的临床疗效及作用机制

王丽, 方玉甫, 周国秀, 吴盘红, 李庆娟, 耿庆娜 (175)

正气散加减治疗慢性胃炎对患者生活质量、炎症因子水平的影响

刘新桥, 王玲 (181)

金天格胶囊治疗绝经后骨质疏松症的系统评价

赵艺如, 魏戌, 姜俊杰, 章轶立, 王尚全, 谢雁鸣 (186)

中医药心脑血管疾病同治的方剂用药规律分析

高佳明, 吕明, 解微微, 刘昕彦, 赵步长, 朱彦 (193)

· 学术探讨 ·

基于钻石理论的中药产业国际贸易竞争力研究

程蒙, 杨光, 池秀莲, 辛敏通 (199)

本期责任编辑: 张燕



CONTENTS IN BRIEF

Application of DNA metabarcoding in species identification of Chinese herbal medicines

LIU Zhi-xiang, XU Jiang, SUN Wei, SHI Yu-hua, CHEN Shi-lin (1)

Roles and mechanisms of traditional Chinese medicine and its active ingredients in treating epilepsy

YUAN Xu, LI Zheng, WANG Xiao-tian, LI Xiang-yang, HUA Hui, LI Xiao-cui, TANG Ren-xian, LIU Xiao-mei (9)

Research advancement in natural anti-cancer product

YIN Jie, LI Qi, SUN Li-dong, YANG Qing, ZHAO Zheng, RAN Qing-sen, WENG Xiao-gang, CHEN Ying, WANG Ya-jie, LI Yu-jie, CAI Wei-yan, ZHU Xiao-xin (19)

Development status and research strategy of traditional Chinese medicine temporary prescription preparation technology

HU Zhi-qiang, XIAN Jie-chen, CHU Shi-ci, WANG Jian-ying, SHEN Lan, ZHANG Lei, HONG Yan-long (28)

Regulatory effect of traditional Chinese medicine on intestinal microbiota

YU Lan, XING Zhi-kai, MI Shuang-li, WU Xia (34)

Application of affinity chromatography and its mathematical model in study of active components of traditional Chinese medicine

CHEN Yu-chu, ZHAO Lu, XU Xi-ming, YU Jiang-nan, TONG Shan-shan (40)

Research progress of pesticide residues in traditional Chinese medicines

LI Hui-jun, ZHANG Wen-sheng, WU Jie-shan, XIN Wen-feng (48)

Cluster analysis of *Dendrobium officinale* from different populations through agronomy characterization

YU Wen-xia, DONG Xiao-man, LEI Zhou-xi, YUAN Yuan, SHUN Qing-sheng, WEI Gang, YU Nian-jun, HUANG Run-ping, WU Qian-wen (53)

Response of growth and photosynthetic characteristics of *Polygonatum cyrtoneura* to shading conditions

LIANG Yong-fu, YI Jia-ning, WANG Kang-cai, XUE Qi, SUI Li (59)

Study on quality characteristics of *Ligustri Lucidi Fructus* in national resource survey and consideration on standards of *Ligustri Lucidi Fructus* in *Chinese Pharmacopoeia*

LIU Huan, XIONG Hui, XUE Xue, LIU Meng-nan, WANG Hai-li, LIU Wei, WEI Feng, LI Xiang-ri (68)

Construction of Tn5 transposon insertion mutants of *Ralstonia solanacearum* isolated from *Pogostemon cablin*

WANG Ya-qin, ZHANG Yu-yao, HE Hong, LI Zhuan, DENG Zhi-cheng, JIN Hua, LI Guang-wei (77)

Determination and risk assessment of heavy metals and harmful elements residues in Niu Huang Qingwei Pills based on ICP-MS

NIE Li-xing, ZHA Yi-fan, ZUO Tian-tian, JIN Hong-yu, YU Jian-dong, DAI Zhong, MA Shuang-cheng (82)

Flavonoids with PTP1B inhibition from *Broussonetia papyrifera*

LOU Yang, SU Shi-yun, LI Ya-nan, LEI Chun, LI Jing-ya, HOU Ai-jun (88)

A new eudesmane type sesquiterpene from cultivated <i>Clerodendranthus spicatus</i> in Hainan	
CHEN Hui-qin, ZHANG Rong-rong, MEI Wen-li, CAI Cai-hong, GAI Cui-juan, YU Xu-dong, DAI Hao-fu	(95)
Comparison of eleven active components in <i>Lonicerae Japonicae</i> Flos, <i>Lonicerae Japonicae</i> Caulis and leaves of <i>Lonicera japonica</i> by UPLC	
TIAN Wei, FAN Shuai-shuai, ZHEN Ya-qin, FENG Yu, CHEN Zhong, NIU Li-ying	(100)
Analysis of factors related to oil-spilling and establishment of limit standards of <i>Asparagi Radix</i>	
WU Cui, MA Yu-cui, XU Liang, LI Rui-qi, CHAO Zhi-mao	(106)
Yiqi Tongluo Particles improve Qi-deficiency and blood stasis in multiple cerebral infarction rats by promoting angiogenesis	
XUE Bing-jie, HUANG Ji-sheng, MA Bo, HAO Ting-ting, LIU Jian-xun	(112)
Mechanism of β-carboline alkaloids inhibiting migration and invasion of SGC-7901 cells	
XI Tao, XIA Huan, FAN Yu-xiang, CAO Yong-cheng, ZHANG Hong-liang	(119)
Inhibitory effect of extract of <i>Coptidis Rhizoma</i> on invasion of <i>Candida albicans</i> hyphae <i>in vitro</i>	
NIU Hui-xia, DUAN Qiang-jun, SHI Gao-xiang, WU Da-qiang, SHAO Jing, WANG Tian-ming, WANG Chang-zhong	(125)
Transcriptomics study on mechanism of <i>Aconiti Lateralis Radix Praeparata</i> in treatment of rats with acute heart failure	
WANG Qi-hao, GAO Ji-hai, CHEN Hai-mei, XIE Xiao-fang, PENG Cheng	(131)
Intervention effects and mechanism of Chinese herbal medicine of supplementing Qi and activating blood circulation on chronic intermittent hypoxia composite insulin resistance ApoE^{-/-} mice model	
MA Lin-qin, ZHANG Jing-chun, LIU Yue, QIAO Yu, SUN Xin-li, LEI Shu-yan, ZHENG Qiao-xian, MAO Ting	(141)
Identification of active components in Longxue Tongluo Capsules against ischemic brain injury based on component-activity relationship	
SUN Jing, CHEN Xiao-nan, LIU Jia-ni, GUAN Peng-wei, WANG Chao-chao, PAN Bo, PANG Dao-ran, LI Shan-shan, ZHENG Jiao, HUANG Wen-zhe, TU Peng-fei, LI Jun	(150)
Lipid metabolism study of sodium norcantharidate in LO2 hepatocytes based on lipidomics	
ZHAO Li-juan, SI Nan, GAO Bo, WEI Xiao-lu, WANG Yan-li, ZHAO Hai-yu, BIAN Bao-lin	(158)
Absorptive characteristic of <i>Bletilla striata</i> extract in Caco-2 cell monolayer	
YANG Shu-ting, PAN Jie, LU Yuan, MEI Chao-ye, LIU Ting, HUANG Yong, WANG Yong-lin	(167)
Study on clinical efficacy and mechanism of Qingying Tang for treating psoriatic blood-heat syndrome based on IL-23/Th17	
WANG Li, FANG Yu-pu, ZHOU Guo-xiu, WU Pan-hong, LI Qing-juan, GENG Qing-na	(175)
Effect of modified Zhengqi Powder in treating chronic gastritis and on patients' life quality and inflammatory factors	
LIU Xin-qiao, WANG Ling	(181)
Systemic review of Jintiang Capsules in treatment of postmenopausal osteoporosis	
ZHAO Yi-ru, WEI Xu, JIANG Jun-jie, ZHANG Yi-li, WANG Shang-quan, XIE Yan-ming	(186)
Regularity of traditional Chinese medicine prescriptions for same treatment for cardiovascular and cerebrovascular diseases	
GAO Jia-ming, LYU Ming, XIE Wei-wei, LIU Xin-yan, ZHAO Bu-chang, ZHU Yan	(193)
Research on competitiveness of traditional Chinese medicine industry's international trade based on diamond theory	
CHENG Meng, YANG Guang, CHI Xiu-lian, XIN Min-tong	(199)

主 编 张伯礼
主 管 中国科学技术协会
主 办 中国药学会
编辑出版 中国中药杂志编辑部
地 址 北京市东直门内南小街16号
邮 编 100700
电 话 (010) 64087589
网 址 <http://www.cjcmm.com.cn>
邮 箱 cjcmm2006@188.com
图文制作 同方知网(北京)技术有限公司
封面设计 北京午未创意文化传媒有限公司
印 刷 山西同方知网印刷有限公司
国内外发行 同方知网(北京)技术有限公司
订 阅 同方知网(北京)技术有限公司
出版日期 2019年1月1日
标准刊号 ISSN 1001-5302 CN 11-2272/R
国内定价 每期50元, 全年1200元

Editor-in-Chief

ZHANG Bo-li

Responsible Institution

China Association for Science and Technology

Sponsored by

Chinese Pharmaceutical Association

Address: 16 Nanxiaojie, Inner Dongzhimen Beijing 100700, China

Tel: (010) 64087589

E-mail: cjcmm2006@188.com

<http://www.cjcmm.com.cn>

Graphics produced by

Tongfang Knowledge Network Technology Co., Ltd (Beijing)

Printed by

Shanxi Tongfang Knowledge Network Printing Co., Ltd.

Overseas Distributor

Tongfang Knowledge Network Technology Co., Ltd. (Beijing)

Publication Date

January 1, 2019

ISSN 1001-5302 CN 11-2272/R

ISSN 1001-5302



国内定价: 50.00元