"十二五"国家重点图书

National Key Books of The Twelfth Five-year Guideline

常用中草药显微结构鉴别彩色图谱

·汉英对照·
(Chinese-English)

Colour Atlas of Common Chinese Herbs Microstructure Identification

王桂芹　王玉良⊙著
张　倩⊙译

合肥工業大學出版社
HEFEI UNIVERSITY OF TECHNOLOGY PRESS

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内容简介

中草药显微结构鉴别，是中药五大鉴别方法之一，在中草药真伪鉴别和中成药质量标准的控制中起着非常重要的作用。特别是对药材及其类似品、混淆品或一些同属的近缘植物的鉴别有着重要意义。

本书对91种常用中草药进行显微鉴别，突出鉴别药用植物的药用部位显微结构和后含物的特征。全书以显微结构彩图表达为主，对其结构和鉴别要点等辅以少量文字说明。

本书含插图570幅，其中显微结构彩图544幅，生境实物彩图26幅。

本书可供国家药品质量检查部门、药材经营者用于鉴别药材真伪之用，还可供中药专业的学生以及从事植物结构研究的专业技术人员作为图谱性工具书使用。

Abstract

Microstructure identification of Chineseherbs is one of five main identical methods of traditional Chinese medicine. It plays a very important role in identification and quality control of traditional Chinese medicine, especially in the identification of differences between traditional Chinese medicine and the similar plant.

In this book, 91 kinds of Chinese herbs were carried on microscopic identification. The aim of this book is highlight the identification of Chinese herbal microstructure and the characteristics of ergastic substance. This book is simplicity, in which color graphs of microstructure are the main part, added some text of structure and identification points.

This illustration book contains 570 illustrations, including color graphs of microstructure and 26 color graphs of physical Chinese herbal plants.

This book can identify Chinese herbs for national department of dlrug control and the operators of medical material. It also can give references for students whose majors are Chinese herbs and professionals that study on plant structure.

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前言

中草药伪品和混淆品的存在自古有之。晋代张华《博物志》第七卷记述“杜衡乱细辛”；明代李时珍《本草纲目》有“桔梗采根造作乱人参”之说；清代曹炳章《增订伪药条辨》中记载“乌梅近有以小李伪造充售”。可见中草药种类之混乱，自古有之，由来已久。被历代本草所确定的伪品和混淆品至今依然存在：以次充好有之，以假乱真有之，伪造假冒有之。尤其是珍贵的中草药，以伪乱真现象越演越烈。既给国家造成经济损失，也严重地伤害了人们的身心健康。

中草药显微结构鉴别，是中药五大鉴别方法之一，在中草药真伪鉴别和中成药质量标准的控制中起着非常重要的作用。特别是在药材及类似品、混淆品或一些同属的近缘植物的区别上必然用到它。

自1977年版《中华人民共和国药典》开始收载显微鉴别内容以来，随着中药显微鉴别研究的不断深入，《中华人民共和国药典》收载的显微鉴别品种不断增加。目前，《中华人民共和国药典》(2005年版)收载具有显微鉴别项目的中药材品种为335种，占全部收载总数的61%。如何在我国目前国情的基础上，充分发挥药材显微鉴别的特点，提高药材显微鉴别的水平，对于保证药品安全有效、质量可控，保障人民群众身体健康具有极为重要的意义。目前显微鉴定方面的书籍和著作虽比较多，但尚鲜见有关药用植物的药用部位彩色显微结构图谱问世。

本书作者历经5年时间，对100余种常用中草药植物进行了采集和鉴定；对其药用部位进行了材料处理、切片、图片制作和编辑等一系列工作，得以完成此书。

书中内容以突出鉴别药用植物的药用部位显微结构和后含物的特征为宗旨，力求简洁明了，以显微结构彩图表达为主，对其结构和鉴别要点等辅以少

量文字说明。

本书含插图570幅，其中显微结构彩图544幅、生境实物彩图26幅。显微彩图图题中的放大倍数指显微镜放大倍数，同时注明了切片部位，供读者使用时参考。除了作特别说明的以外，书中所有图片均为本书作者摄制、编辑。

显微材料均为新鲜材料，切片制作方法为常规石蜡制片方法，除少数材料进行了组织化学定位或高碘酸-西夫试剂反应（PAS反应）以外，其余的均为番红-固绿对染，切片厚度一般为8～12μm。

切片所使用的中药材来源不一：部分采自安徽科技学院中药药园，另外部分采自安徽省鹞落坪自然保护区、金寨天马自然保护区、琅琊山风景区、皇甫山林场、禅窟寺风景区，以及内蒙古赤峰市郊荒漠，少数材料购自道地产地或原产地。材料来源地较多，这里恕不一一列举。

每个显微图中使用缩写符号标注了结构或物质的位置，限于篇幅并避免重复，没有在每个图的下方说明符号的意义，各个符号及符号的中文意义与对应的英文均已在文前另列。

本书可供国家药品质量检查部门、药材经营者用于鉴别药材真伪之用，还可供中药专业大、中专学生及从事植物结构研究的专业人员作为图谱性工具书使用。

本书因安徽科技学院引进人才专项（ZRC200436）课题基金资助得以完成，在此感谢安徽科技学院的全力支持！

由于作者水平有限，在拍摄和编写过程中难免存在疏漏、不妥之处，诚恳希望广大读者提出宝贵意见。

作　者

此为试读，需要完整PDF请访问：www.ertongbook.com

Introduction

Counterfeits and adulterants of traditional Chinese medicine have been existed since ancient times. Nowadays, this situation still remains, which causes economic losses and harms the health of people.

Microstructure identification of traditional Chinese medicine is one of five main identical methods of traditional Chinese medicine. It plays a very important role in identification and quality control of traditional Chinese medicine, especially in the identification of differences between traditional Chinese medicine and the similar plant.

Microstructure of traditional Chinese medicine was firstly recorded in "1977 year edition Chinese Pharmacopoeia". With the gradual and further study of microstructure identification of traditional Chinese medicine, varieties of microstructure identification increase constantly. At present, 335 microstructure identification varieties of traditional Chinese medicine are recorded in "2005 year edition Chinese Pharmacopoeia", which accounts for 61% of all. It is important to give full play to the characteristics of the traditional Chinese medicine microscopic identification and improve the level of microscopic identification. Although there are many books about microscopic identification, atlas that describes the medical part of plant has not been published.

More than 100 Chinese herbal plants have been collected and identified for 5 years. Medical parts of these plants were processed and cut into pieces. After making pictures and editing, the illustrate book has been done.

The aim of this book is highlight the identification of Chinese herbal microstructure and the characteristics of ergastic substance. This book is simplicity, in which color graphs of microstructure are the main part, added some text of structure and identification points.

This illustration book contains 570 illustrations, including color graphs of microstructure and 26 color graphs of physical plants. Microscope magnification and section parts were manifested for reference. All pictures are shot and edited by authors except those have special notes.

The microscopic materials are fresh. Conventional paraffin sectioning method is used for section making. Except some materials are carried on histochemical localization or PAS reaction, others aretreated with Safranine and Fast Green staining. The thickness of section is usually 8～12 μm.

Sources of Chinese herbs that used for section are: Chinese herbs garden of Anhui Science and Technology College, Anhui Yaoluoping National Nature Reserve Area, Langya Mountain, Chanku Temple Scenic Spot, and desert near Chifeng City of Inner Mongolia Autonomous Region. Only a few materials are brought from original producing area.

Positions of structures or materials are signed

in the microscopic.

This book can identify Chinese herbs for national department of drug control and the operators of medical material. It also can give references for students whose majors are Chinese herbs and professionals that study on plant structure.

This book is sponsored by"Anhui College Science and Technology introduction of talents" subject fund (ZRC200436).

Thanks for the full support of Anhui Science and Technology College.

Because the authors' knowledge is limit, maybe there are some defaults in this book. Sincerely hope the readers can give valuable advice.

Author

文中缩写符号意义
Abbreviation Meanings

序　号 Serial Number	缩　写 Abbreviation	中　文 Chinese	英　文 English
1	A	多糖	Amylos
2	Ab	异常维管束	Anomalous vascular bundle
3	Ac	通气组织	Ventilating tissue
4	Amb	周韧维管束	Amphicribral bundle
5	As	附加维管柱	Auxillary stele
6	Avb	周木维管束	Amphivasal bundle
7	Bs	维管束鞘	Bundle sheath
8	C	维管形成层	Vascular cambium
9	Ca	厚角组织	Collenchyma
10	Co	皮层	Cortex
11	Cu	角质层	Cuticle
12	E	表皮	Epidermis
13	Ec	额外形成层	Extra cambium
14	Ed	内皮层	Endodermis
15	Cs	晶体	Crystal
16	Gb	腺体	Gland
17	Gh	腺毛	Glandular hair
18	M	叶肉	Mesophyll
19	Mc	粘液细胞	Mucous cell
20	Me	复表皮	Mutiple epidermis
21	O	油点	Oil
22	Pc	管孔链	Pore chain
23	Pcl	管孔团	Pore cluster
24	Pd	栓内层	Phelloderm
25	Ph	木栓	Cork, Phellem
26	Pi	髓	Pith, Medulla
27	Pp	初生韧皮部	Primary phloem
28	Pr	髓射线	Medullary ray, Pith ray
29	Pt	栅栏组织	Palisade tissue
30	Px	初生木质部	Primary xylem
31	Py	薄壁组织	Parenchyma

（续表）

序　号 Serial Number	缩　写 Abbreviation	中　文 Chinese	英　文 English
32	Sa	皂苷	Saponin
33	Sck	叠生木栓	Storied cork
34	Sg	淀粉粒	Starch grain
35	Sc	厚壁组织	Sclerenchyma
36	Sp	次生韧皮部	Secondary phloem
37	Spr	单管孔	Simple pore
38	Stc	分泌结构	Secretory structure
39	Stm	次生加厚分生组织	Secondary thickedmeristem
40	Sx	次生木质部	Secondary xylem
41	T	侵填体	Tylosis
42	Tm	毛状体	Hair body
43	Tvb	三生维管束	Amylose
44	Vb	维管束	Vascular bundle
45	Vr	维管射线	Vascular ray

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音序索引

第1部分 Part One

根、根茎类药材

Medicinal Materials of Root and Rhizome

射干 *Belamcanda chinensis*

直立百部 *Stemona sessilifolia*

华重楼 *Paris polyphylla var. chinensi*

珠子参 *Panax japonicus var. major*

天麻 *Castrodia elata*

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