

本期目录 | 下期目录 | 过刊浏览 | 高级检索

[打印本页] [关闭]

论文

沙参属沙参组18种植物根的组织学研究

屠鹏飞;徐珞珊;徐国钧;难波恒雄

国药科大学,南京210009;**日本富山医科药科大学

摘要:

为了澄清沙参类生药的混乱,并为生药鉴定提供科学依据,作者等对沙参属*Adenophora* 30种药用植物根的组织构造进行了研究,并对其组织分类学进行了初步探讨。本文报道沙参属沙参组Sect.*Microdiscus* 18种药用植物根的组织学比较研究结果,并对本属植物的组织分类学进行初步探讨。

关键词: 沙参属 组织学 组织分类学

HISTOLOGICAL STUDIES ON THE ROOTS OF EIGHTEEN SPECIES OF SECT. *MICRODISCUS* OF THE GENUS *ADENOPHORA*

Tu Pengfei; Xu Luoshan; Xu Guojun and Namba Tsuneo

Abstract:

The Chinese materia medica "Nanshasheng" (*Radix Adenophorae*) specified in Chinese Pharmacopoeia (1995) is the dried root of *Adenophora tetraphylla* (Thunb.) Fisch. or *A. stricta* Miq. (Fam. *Campanulaceae*). Results of an investigation on the botanical origin of the drug showed that the roots of 30 species (subspecies, varieties) of the genus *Adenophora* are also used in certain districts in China. Thus, it is necessary to study and compare the histological characters of these roots. In this paper, the root structure of 18 species from Sect. *Microdiscus* are reported, viz. *Adenophora brevidiscifera* Hong, *A. coelestis* Diels, *A. stricta* Miq., *A. stricta* Miq. var. *qinglongshanica* P. F. Tu et G. J. Xu, *A. stricta* Miq. var. *nanjingensis* P. F. Tu et G. J. Xu, *A. stricta* Miq. subsp. *henanica* P. F. Tu et G. J. Xu, *A. stricta* Miq. subsp. *sessilifolia* Hong, *A. longipedicellata* Hong, *A. gmelinii* (Spreng.) Fisch., *A. polyantha* Nakai, *A. micrantha* Hong, *A. stenophylla* Hemsl., *A. potaninii* Korsh., *A. bockiana* Diels, *A. wawreana* Zahlbr., *A. tricuspidata* (Fisch. ex Roem. et Schult.) A. DC., *A. pereskifolia* (Fisch. ex Roem. et Schult.) G. Don and *A. divaricata* Franch. et Sav.. According to the presence, arrangement and thickening of cell walls of sclerified cork cell (SCC) in cork tissue and the rate of secondary and anomalous structures, the histological structures of *Adenophora* roots are classified into types A, B and C. In type A, SCC are arranged in ring shape. Type A can be further classified into subtypes A₁ and A₂. Only the outer and anticlinal walls of SCC are thickened in subtype A₁, and all cell walls of SCC are thickened in subtype A₂. In type B, SCC are arranged scatteredly, not in ring shape. In type C, there is no SCC. Type C can be classified into subtypes C₁, C₂ and C₃. In type C₁, the secondary structure occupies more than 50% of the root diameter. In type C₂, the anomalous structure is more than 50% of the root diameter, and the anomalous vascular bundles are in band form. The anomalous structure occupies more than 50% of the root diameter in subtype C₃, and the anomalous vascular bundles are branched.

Keywords: Histology Histo-taxonomy *Adenophora*

收稿日期 1996-05-13 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

扩展功能

本文信息

► Supporting info

► PDF(1724KB)

► [HTML全文]

► 参考文献

服务与反馈

► 把本文推荐给朋友

► 加入我的书架

► 加入引用管理器

► 引用本文

► Email Alert

► 文章反馈

► 浏览反馈信息

本文关键词相关文章

► 沙参属

► 组织学

► 组织分类学

本文作者相关文章

► 屠鹏飞

► 徐珞珊

► 徐国钧

► 难波恒雄

PubMed

► Article by

► Article by

► Article by

► Article by

文章评论 (请注意:本站实行文责自负, 请不要发表与学术无关的内容!评论内容不代表本站观点.)

反馈人	<input type="text"/>	邮箱地址	<input type="text"/>
反馈标题	<input type="text"/>	验证码	<input type="text"/> 0687

Copyright 2008 by 药学学报