

论文

中药龙胆的形态组织学研究

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摘要:

本文报道九种龙胆:东北龙胆*Gentiana manshurica* Kitag.,建德龙胆*G. manshurica* Kitag.ssp.*jiandensis* J.P.Luo et Z.C.Lou(ssp.nov.),粗糙龙胆*G. scabra* Bunge,三花龙胆*G. triflora* Pall.,坚龙胆*G. rigescens* Franch.,头花龙胆*G. cephalantha* Franch.,亚木龙胆*G. suffrutescens* J.P.Luo et Z.C.Lou(sp.nov),德钦龙胆*G. atuntsiensis* W.W.Sm.和红花龙胆*G. rhodantha* Franch.的生药性状与它们的根,根茎、残茎和四种植物的越冬芽的显微特征。根据组织学研究结果,将上述九种生药分为二个型:关龙胆型与坚龙胆型,并发现上述分型与形态分类结果颇为一致。

关键词: 龙胆 形态组织学研究 东北龙胆 建德龙胆 粗糙龙胆 三花龙胆 坚龙胆 头花龙胆,亚木龙胆 德钦龙胆 红花龙胆

MORPHOLOGICAL AND HISTOLOGICAL STUDIES OF THE CHINESE DRUG LONGDAN, RADIX GENTIANAE

LUO Ji-Peng and LOU Zhi-Cen

Abstract:

Longdan, Radix Gentianae, is a well-known drug. It has been used for clearing up evil heat from liver and gallbladder and removing damp-heat from lower parts of the body in Chinese traditional medicine, and as a bitter stomachic in modern medicine. In order to provide means for the accurate identification of the commercial drugs derived from the following nine plants, viz. *Gentiana manshurica* Kitag., *G. manshurica* Kitag. ssp. *jiandeensis* J. P. Luo et Z. C. Lou (ssp. nov.), *G. scabra* Bunge, *G. triflora* Pall., *G. rigescens* Franch., *G. cephalantha* Franch., *G. suffrutescens* J. P. Luo et Z. C. Lou, *G. atuntsiensis* W. W. Sm. and *G. rhodantha* Franch., morphological and histological studies of the drugs were undertaken. The results showed that all these drugs can be correctly identified by their morphological and histological characters, and keys for the morphological and histological identifications of the drugs are provided. Based on histological findings, the drugs Longdan derived from the above nine species may be divided into two types: A. *Gentiana manshurica* type--includes the drugs derived from *Gentiana manshurica*, *G. manshurica* ssp. *jiandeensis*, *G. scabra* and *G. triflora*. These drugs are characterized by the presence of exodermis, cortex, pith and scalariform vessels, by the absence of xylem fibres in the roots, and by the presence of lignified sclereids in their stems. B. *Gentiana rigescens* type--includes the drugs derived from *Gentiana rigescens*, *G. cephalantha*, *G. suffrutescens*, *G. atuntsiensis* and *G. rhodantha*. These drugs are characterized by the presence of xylem fibres or phloem fibres, by the absence of exodermis and cortex in their roots as well as lignified sclereids in their stems. The above types divided according to the histological characters are in agreement with the result of taxonomical study.

Keywords: Morphological and histological studies *Gentiana manshurica* *G. manshurica* ssp. *jiandeensis* *G. scabra* *G. triflora* *G. rigescens* *G. cephalantha* *G. suffrutescens* *G. atuntsiensis* *G. rhodantha* Radix Gentianae

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