

从种子和叶片特征论高山三尖杉(*Cephalotaxus alpina*(Li) L.K.Fu)的分类地位(三尖杉科)

郎学东^{1,2},苏建荣^{1*},陆树刚²,张志均¹,李帅锋¹

1.中国林业科学研究院资源昆虫研究所, 昆明 650224;

2.云南大学生命科学学院, 昆明 650091

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摘要

长期以来, 对高山三尖杉(*Cephalotaxus alpina*(Li) L.K.Fu)分类地位的争议缺少可靠证据。本文从居群采样的水平上比较了高山三尖杉和三尖杉(*Cephalotaxus fortunei* Hooker)的叶片和种子形态特征, 两者除种子的长宽比率无显著差异外, 种子长度, 宽度, 厚度, 长厚比率, 宽厚比率以及叶片长度和宽度均差异极显著。此外, 通过散点图分析表明两者的种子宽厚比和叶片宽度的变异是间断而稳定的, 这一特征能将高山三尖杉和三尖杉明显地区分, 结果支持将高山三尖杉作为种的等级较为合适, 不赞成将高山三尖杉作为三尖杉的变种或亚种的分类处理。同时, 对标本和原始文献的研究认为胡秀英(1964)发表的园桃杉(*Cephalotaxus fortunei* Hooker var. *globosa* S.Y.Hu)和高山三尖杉应是同一分类群。

关键词 [高山三尖杉](#); [分类地位](#); [形态特征](#); [种子](#); [叶片](#); [三尖杉科](#)

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Taxonomic Status of *Cephalotaxus alpina*(Li) L.K.Fu (Cephalotaxaceae) in the Views of Morphological Characteristics of Seeds and Leaves

LANG Xue-Dong^{1,2}, SU Jian-Rong^{1*}, LU Shu-Gang², ZHANG Zhi-Jun¹, LI Shuai-Feng¹

1. Research Institute of Resources Insects, Chinese Academy of Forestry, Kunming 650224;

2. College of Life Sciences, Yunnan University, Kunming 650091

Abstract

The significant differences in length, width, thickness, length/thickness ratio, and width/thickness ratio of seeds, as well as in length and width of leaves between *Cephalotaxus alpina*(Li) L.K.Fu and *Cephalotaxus fortunei* Hooker were shown in this study. The width range and mean of leaf of *C. fortunei* Hooker are 3.50-6.20 cm and 5.02 cm, respectively. In contrast, *C. alpina*(Li) L.K.Fu has only 2.00-3.50 cm and 2.89 cm. The range of seed width/thickness ratio and mean of *C. fortunei* Hooker are 0.53 and 1.43, respectively, while *C. alpina*(Li) L.K.Fu is 0.23 and 1.02, respectively. Scatter diagrams of *C. alpina*(Li) L.K.Fu and *C. fortunei* Hooker illustrated that the variations in leaves length, seeds length, seeds width, seeds thickness, seeds length/width ratio and seeds length/thickness ratio between these two taxa can not differ *C. alpina*(Li) L.K.Fu from *C. fortunei* Hooker, but the variation in leaves width and seeds width/thickness ratio can differ *C. alpina*(Li) L.K.Fu from *C. fortunei* Hooker notably.

Based on these significant differences, we supported the view that Fu (1984) treated *C. fortunei* Hooker var. *alpina* H.L.Li as *C. alpina*(Li) L.K.Fu, and disagreed with the argument that Silba(2007) thought *C. fortunei* Hooker var. *alpina* Li as *C. fortunei* Hooker subsp. *alpina*(Li) Silba. On the other hand, there were evidences supporting that *C. fortunei* Hooker var. *globosa* S.Y.Hu(1964) should be the same taxon with *C. alpina*(Li) L.K.Fu. Finally, a new plates 1-6 was provided.

Key words [Cephalotaxus alpina](#)(Li) L.K.Fu [taxonomic status](#) [morphological characteristics](#) [seeds](#) [leaves](#) [Cephalotaxaceae](#)

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| 张志均 |
| 李帅锋 |

通讯作者 苏建荣 jianrongsu@vip.sina.com

作者个人主页 郎学东^{1,2}; 苏建荣^{1*}; 陆树刚²; 张志均¹; 李帅锋¹