

# Accepted Manuscript

A new genus and species of basal horntail (Hymenoptera, Siricidae) from the Lower Cretaceous of China

Mei Wang, Alexandr P. Rasnitsyn, Gang Han, Dong Ren



PII: S0195-6671(18)30106-X

DOI: [10.1016/j.cretres.2018.06.006](https://doi.org/10.1016/j.cretres.2018.06.006)

Reference: YCRES 3899

To appear in: *Cretaceous Research*

Received Date: 20 March 2018

Revised Date: 11 May 2018

Accepted Date: 10 June 2018

Please cite this article as: Wang, M., Rasnitsyn, A.P., Han, G., Ren, D., A new genus and species of basal horntail (Hymenoptera, Siricidae) from the Lower Cretaceous of China, *Cretaceous Research* (2018), doi: 10.1016/j.cretres.2018.06.006.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 A new genus and species of basal horntail (Hymenoptera, Siricidae) from the Lower Cretaceous of  
2 China

3

4 Mei Wang<sup>a, b\*</sup>, Alexandr P. Rasnitsyn<sup>c, d</sup>, Gang Han<sup>e, f\*</sup>, Dong Ren<sup>b</sup>

5

6 <sup>a</sup>The Key Laboratory of Forest Protection of China State Forestry Administration, Research Institute of  
7 Forest Ecology, Environment and Protection, Chinese Academy of Forestry, Beijing 100091, China;

8 <sup>b</sup>College of Life Sciences, Capital Normal University, 105 Xisanhuanbeilu, Haidian District, Beijing  
9 100048, China;

10 <sup>c</sup>Palaeontological Institute, Russian Academy of Sciences, 123, Profsoyuznaya ul., Moscow 117647,  
11 Russia;

12 <sup>d</sup>Department of Palaeontology, Natural History Museum, Cromwell Road, London SW7 5BD, UK;

13 <sup>e</sup>Hainan Tropical Ocean University, Sanya 572022, China;

14 <sup>f</sup>Palaeontological Center, Bohai University, Jinzhou 121013, China

15

16 \*Corresponding co-authors. E-mails: [wangmeicnu@163.com](mailto:wangmeicnu@163.com); [hg0805@126.com](mailto:hg0805@126.com)

17

18 **Abstract**

19 A new basal horntail wasp, *Cretosirex xiaoi* gen. et sp. nov., in the family Siricidae is described from one  
20 fossil specimen collected from the Lower Cretaceous Yixian Formation in northeastern China. The new  
21 genus is placed in the basal group of Siricidae based on the forewing with 2r-m present and 1-RS  
22 subvertical; presence of the clearly subbasal anal loop; lacking of a corrugated forewing membrane and  
23 presence of the transmesonotal suture. It shares several intermingled characters with the three extinct  
24 subfamilies of Siricidae, but the new genus cannot be attributed to any of these three subfamilies. Our new  
25 discovery expands the distribution range of Siricidae fossil records and emphasizes the need for more  
26 studies of this major insect lineage in the Mesozoic deposits.

27

28 **Keywords:** ‘Symphyta’; Fossil record; Mesozoic; Wood wasp; Taxonomy

29

Download English Version:

<https://daneshyari.com/en/article/8916181>

Download Persian Version:

<https://daneshyari.com/article/8916181>

[Daneshyari.com](https://daneshyari.com)