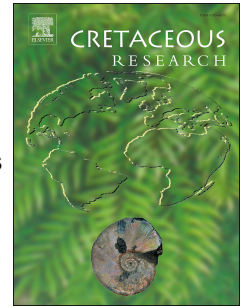


Accepted Manuscript

A new fossil genus of soldier beetles (Coleoptera: Cantharidae) from mid-Cretaceous Burmese amber: A probable case of adaptive convergence

Fabrizio Fanti, Sieghard Ellenberger



PII: S0195-6671(18)30225-8

DOI: [10.1016/j.cretres.2018.08.009](https://doi.org/10.1016/j.cretres.2018.08.009)

Reference: YCRES 3939

To appear in: *Cretaceous Research*

Received Date: 6 June 2018

Revised Date: 16 July 2018

Accepted Date: 18 August 2018

Please cite this article as: Fanti, F., Ellenberger, S., A new fossil genus of soldier beetles (Coleoptera: Cantharidae) from mid-Cretaceous Burmese amber: A probable case of adaptive convergence, *Cretaceous Research* (2018), doi: 10.1016/j.cretres.2018.08.009.

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 fossil genus of soldier beetles (Coleoptera: Cantharidae) from mid-**
2 **Cretaceous Burmese amber: a probable case of adaptive convergence**

3 **Fabrizio Fanti^{a,*}, Sieghard Ellenberger^b**

4
5 ^aVia del Tamburino 69, I-53040 Piazze, Siena, Italy

6 ^bBodenschwingstraße 13, D-34119 Kassel, Germany

7 *Corresponding author.

8 E-mail addresses: fantifab@alice.it (F. Fanti), info@burmese-amber.com (S. Ellenberger).

9
10 **ABSTRACT**

11 *Hukawngichthyurus kyawkhaingwini* gen. et sp. nov. is described and illustrated from the Cretaceous amber
12 of Myanmar (Burmite). The new species belongs to the subfamily Cantharinae Imhoff, 1856, especially the
13 last urites in a kind of fishtail are, similar to the representatives of tribe Ichthyurini Champion, 1915,
14 subfamily Chauliognathinae LeConte, 1861, whose taxa are currently found mainly in the Southern
15 Hemisphere and the Oriental region. This peculiar aspect makes us assume that we are dealing with a
16 probable case of adaptive convergence and confirms that the arthropods (and plants) in Burmese amber have
17 many similarities with the faunas of Gondwana.

18
19 **Keywords:** Cretaceous, Burmite, Myanmar, Gondwana, new taxa, adaptive convergence

20
21 **1. Introduction**

22 The soldier beetles (Coleoptera: Cantharidae) found in Burmese amber have many unique
23 characteristics and more related with the fauna now present in the Oriental (Sino-Indian)
24 biogeographic region. The new species here described, although belonging to another subfamily,
25 has strong similarities with the tribe Ichthyurini Champion, 1915, subfamily Chauliognathinae

Download English Version:

<https://daneshyari.com/en/article/10122002>

Download Persian Version:

<https://daneshyari.com/article/10122002>

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