

Kupeantha yabassi (Coffeeae-Rubiaceae), a new Critically Endangered shrub species of the Ebo Forest area, Littoral Region, Cameroon

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Manuscript Source: <https://www.biorxiv.org/content/10.1101/2021.03.21.436301v1>

Manuscript Authors: Maria G. Alvarez-Aguirre, Martin Cheek & Bonaventure Sonké

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- Depending on the source of the input text, the Sentence Audit may contain occasional html artefacts that are parsed as sentences (E.g. "Download figure. Open in new tab").
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All queries, feedback or suggestions are also very welcome.

Research Paper Sections:

The sections of the research paper input text parsed in this audit.

[illegible]

Title **Kupeantha yabassi (Coffeeae- Rubiaceae), a new Critically Endangered shrub species of the Ebo Forest area, Littoral Region, Cameroon**

S1 [001] Summary

S1 [002] A new species to science of evergreen forest shrub, *Kupeantha yabassi* (Coffeeae - Rubiaceae), is described, illustrated, mapped, and compared morphologically with the closely similar species *K. pentamera*.

A new species ...
... to science ...
... of evergreen forest shrub, ...
... *Kupeantha yabassi* ...
... (Coffeeae - Rubiaceae), ...
... is described, ...
... illustrated, ...
... mapped, ...
... and compared morphologically ...
... with the closely similar species *K. pentamera*.

S1 [003] Restricted so far to a single site in evergreen lowland forest near the Ebo Forest, Yabassi, Littoral Region, Cameroon, this species is Critically Endangered using the IUCN 2012 standard due to habitat clearance driven mainly by agriculture, adding to the growing list of threatened species resulting from anthropogenic pressure on Cameroon forests.

Restricted ...
... so far ...
... to a single site ...
... in evergreen lowland forest near the Ebo Forest, ...
... Yabassi, ...
... Littoral Region, ...
... Cameroon, ...
... this species is Critically Endangered ...
... using the IUCN 2012 standard ...
... due to habitat clearance driven mainly ...
... by agriculture, ...
... adding ...
... to the growing list ...
... of threatened species resulting ...
... from anthropogenic pressure ...
... on Cameroon forests.

S1 [004] A revised key to the six species of *Kupeantha* is presented.

A revised key ...
... to the six species ...
... of *Kupeantha* is presented.

S1 [005] Two distinct geographical and ecological species groupings within the genus are identified and discussed.

Two distinct geographical ...
... and ecological species groupings ...
... within the genus are identified ...
... and discussed.

S1 [006] Notes are given on other narrowly endemic and threatened species in the Ebo forest area, a threatened centre of diversity important for conservation in Littoral Region.

Notes are given ...
... on other narrowly endemic ...
... and threatened species ...
... in the Ebo forest area, ...
... a threatened centre ...
... of diversity important ...
... for conservation ...
... in Littoral Region.

S2 [007] Introduction

S2 [008] The new species reported in this paper was discovered as a result of a long-running survey of plants in Cameroon to support improved conservation management.

The new species reported ...
... in this paper was discovered ...
... as a result ...
... of a long-running survey ...
... of plants ...
... in Cameroon ...
... to support improved conservation management.

S2 [009] The survey is led by botanists from the Royal Botanic Gardens, Kew and IRAD (Institute for Research in Agronomic Development)-National Herbarium of Cameroon, Yaoundé.

The survey is led ...
... by botanists ...
... from the Royal Botanic Gardens, ...
... Kew ...
... and IRAD ...
... (Institute ...
... for Research ...
... in Agronomic Development)-National Herbarium ...
... of Cameroon, ...
... Yaoundé.

S2 [010] This study has focussed on the Cross-Sanaga interval (Cheek et al. 2001, 2006) which contains the area with the highest plant species diversity per degree square in tropical Africa (Barthlott et al. 1996).

This study has focussed ...
... on the Cross-Sanaga interval ...
... (Cheek et al. 2001, 2006) ...
... which contains the area ...
... with the highest plant species diversity ...
... per degree square ...
... in tropical Africa ...
... (Barthlott et al. 1996).

S2 [011] The herbarium specimens collected in these surveys formed the foundations for a series of Conservation Checklists (see below).

The herbarium specimens collected ...
... in these surveys formed the foundations ...
... for a series ...
... of Conservation Checklists ...
... (see below).

S2 [012] So far, over 100 new species and several new genera have been discovered and published as a result of these surveys, new protected areas have been recognised and the results of analysis are feeding into the Cameroon Important Plant Area programme (<https://www.kew.org/science/our-science/projects/tropical-important-plant-areas-cameroon>), based on the categories and criteria of Darbyshire et al. (2017).

So far, ...
... over 100 new species ...
... and several new genera have been discovered ...
... and published ...
... as a result ...
... of these surveys, ...
... new protected areas have been recognised ...
... and the results ...
... of analysis are feeding ...
... into the Cameroon Important Plant Area programme ...
... (<https://www.kew.org/science/our-science/projects/tropical-important-plant-areas-cameroon>), ...
... based ...
... on the categories ...
... and criteria ...
... of Darbyshire et al. ...
... (2017).

S2 [013] During completion of a paper erecting the genus *Kupeantha* Cheek (Cheek et al. 2018a), it was noted that a specimen, Leeuwenberg 6400 (K), included in the protologue of *K. pentamera* (Robbr. & Sonké) Cheek (originally described as *Calycosiphonia pentamera* Robbr. & Sonké (Sonké et al. 2007), was geographically disjunct from all the other 38 specimens known of that species.

During completion ...
... of a paper erecting the genus *Kupeantha* Cheek ...
... (Cheek et al. 2018a), ...

... it was noted ...
 ... that a specimen, ...
 ... Leeuwenberg 6400 ...
 ... (K), ...
 ... included ...
 ... in the protologue ...
 ... of *K. pentamera* ...
 ... (Robbr. & Sonké) ...
 ... Cheek ...
 ... (originally described ...
 ... as *Calycosiphonia pentamera* Robbr. & Sonké ...
 ... (Sonké et al. 2007), ...
 ... was geographically disjunct ...
 ... from all the other 38 specimens known ...
 ... of that species.

S2 [014] Further investigation of this specimen, in connection with preparation of a Conservation Checklist of the Plants of the Ebo Forest, Littoral Region, has shown that the points of difference between this specimen and the other specimens of *Kupeantha pentamera* (see Table 1 below), are more than sufficient to warrant erection of a new species, the sixth in *Kupeantha*.

Further investigation ...
 ... of this specimen, ...
 ... in connection ...
 ... with preparation ...
 ... of a Conservation Checklist ...
 ... of the Plants ...
 ... of the Ebo Forest, ...
 ... Littoral Region, ...
 ... has shown ...
 ... that the points ...
 ... of difference ...
 ... between this specimen ...
 ... and the other specimens ...
 ... of *Kupeantha pentamera* ...
 ... (see Table 1 below), ...
 ... are more than sufficient ...
 ... to warrant erection ...
 ... of a new species, ...
 ... the sixth ...
 ... in *Kupeantha*.

S2 [015] We propose in this paper to provide evidence to test this hypothesis and to name this species *Kupeantha yabassi*.

We propose ...
 ... in this paper ...
 ... to provide evidence ...
 ... to test this hypothesis ...
 ... and to name this species *Kupeantha yabassi*.

S2 [016] Table 1.

End of Sample Audit

This is a truncated Manuscript Microscope Sample Audit.

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