



Article

Ten new species of *Sticta* and counting: Colombia as a hot spot for unrecognized diversification in a conspicuous macrolichen genus

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Table of contents

Abstract	1
Introduction	2
Material and Methods	3
Taxonomic Treatment	4
<i>Sticta arachnofuliginosa</i> Moncada & Lücking, sp. nov.	4
<i>Sticta arbuscula</i> Moncada & Lücking, sp. nov.	7
<i>Sticta isidiokunthii</i> Moncada & Lücking, sp. nov.	9
<i>Sticta maculofuliginosa</i> Moncada & Lücking, sp. nov.	11
<i>Sticta microcyphellata</i> Moncada & Lücking, sp. nov.	13
<i>Sticta papillata</i> Moncada & Lücking, sp. nov.	15
<i>Sticta rhizinata</i> Moncada & Lücking, sp. nov.	17
<i>Sticta rubropruinosa</i> Moncada & Lücking, sp. nov.	20
<i>Sticta silverstonii</i> Moncada & Lücking, sp. nov.	21
<i>Sticta tunjensis</i> Moncada & Lücking, sp. nov.	23
Conclusions	25
Acknowledgements	25
References	26

Abstract

As part of a systematic and taxonomic revision including molecular phylogenetic analysis, ten new species of the lichen genus *Sticta* are described from Colombia, some of them also being reported from Guatemala, Venezuela, Ecuador, Bolivia, and Chile: *Sticta arachnofuliginosa* Moncada & Lücking, sp. nov., *S. arbuscula* Moncada & Lücking, sp. nov., *S. isidiokunthii* Moncada & Lücking, sp. nov., *S. maculofuliginosa* Moncada & Lücking, sp. nov., *S. microcyphellata* Moncada & Lücking, sp. nov., *S. papillata* Moncada & Lücking, sp. nov., *S. rhizinata* Moncada & Lücking, sp. nov., *S. rubropruinosa* Moncada & Lücking, sp. nov., *S. silverstonii* Moncada & Lücking, sp. nov., and *S. tunjensis* Moncada & Lücking, sp. nov. The new species represent the major morphological groups within the genus, including taxa with green or blue-green photobiont and with predominantly sexual (apothecia) or vegetative (isidia) reproduction. Detailed morphological, anatomical, and chemical descriptions are given for each species, and all taxa are briefly discussed. We also introduce several novel characters useful in the taxonomy of *Sticta*.

Key words: cyphellae, Lobariaceae, paramos, phyllidia