

**THE GENUS *CLADONIA* P. BROWNE (CLADONIACEAE; ASCOMYCOTA)
IN RESTINGA VEGETATION OF STATE OF ESPÍRITO SANTO, BRAZIL:
SUPERGROUPS *COCCIFERAE* AND *CLADONIA***

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Due a very poor knowledge of the lichenobiota present in the Espírito Santo state, this survey aimed to be the first to analyse extensively the diversity of *Cladonia* species occurring in the white sand vegetation along the coast's state. The genus *Cladonia* is characterized by having a cladoniiform thallus, which consists in two distinct structures, a horizontal, squamulose to crustose primary thallus and an erect, stalked secondary thallus, called podetia. The species in supergroup *Cocciferae* are characterized by the red hymenial discs and pycnidia, due the production of the rhodocladonic acid, and also some others dibenzofurans. In the supergroup *Cladonia*, the species are very variable morphologically, but constantly produces depsidones, also exhibiting brown hymenial discs and pycnidia. The fieldwork was conducted on eight localities along the coastal region of Espírito Santo, between the coordinates 18°28'S and 21°15'S. The collections of the samples were made according to standard methods in lichenology, as the morphological and anatomical analyses. The identification of the secondary metabolites was made using thin layer chromatography with the solvent system C. Six species belonging to the supergroup *Cocciferae* were found: *Cladonia corallifera* (Kunze) Nyl., *C. crustacea* Ahti, *C. didyma* (Fée) Vain., *C. macilenta* Hoffm. *C. secundana* Nyl. and *C. subminiata* S. Stenroos. Three of them are new records for the state: *C. corallifera*, *C. crustacea* and *C. subminiata*. For the supergroup *Cladonia* nine species were found: *C. cartilaginea* Müll. Arg., *C. clathrata* Ahti & L. Xavier, *C. dactylota* Tuck., *C. furfuracea* Vain., *C. pityrophylla* Nyl., *C. polyschypha* Ahti & L. Xavier, *C. subradiata* (Vain.) Sandst., *C. subsquamosa* Kremp. and *C. verticillaris* (Raddi) Fr. *C.cf dactylota*, *C. pityrophylla* and *C. polyschypha* are new records for the state. (CAPES)

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