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*Gavilea*. Para esto, evaluamos la señal filogenética de diferentes rasgos de estas especies, analizando cuáles caracteres son más plásticos y cuáles se han mantenido más estables a lo largo de la filogenia de este taxón. Además, quisimos evaluar si dentro de los rasgos florales había algunos que estuvieran evolucionando en forma correlacionada. Evaluamos la señal filogenética y todos presentaron un índice K de Blomberg menor a 1, no significativo ( $P > 0,05$ ) y un valor de lambda cercano a cero, sugiriendo que

los rasgos florales son evolutivamente plásticos. Sin embargo, al evaluar la correlación entre rasgos florales a través de contrastes independientes, se observó una correlación significativa entre varios de éstos, como el largo del sépalo dorsal con el largo del sépalo lateral, y el largo de las caudículas con el largo de los sépalos laterales, entre otros. Podemos concluir que los rasgos florales son evolutivamente plásticos en la filogenia de este género y que a su vez, algunos de éstos presentan una evolución correlacionada.

## Atlas of orchids of the state of Santa Catarina

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The state of Santa Catarina has a land area of 95,346,181 km<sup>2</sup>, totaling 1.19% of the total area of Brazil. The vegetation of the state consists of the following biomes: tropical Atlantic Forest coast, consisting of mangroves, dunes, beaches, and sandbanks; subtropical forest of Uruguay, with small vegetation; *Araucaria* forest, which is primarily composed of pine, cinnamon, cedar, yerba mate, and tree fern. In the plateau region we find the fields, the coldest region of the state. Despite representing only 1.19% of the total area of Brazil, the state is rich in the quantity and quality of orchids. Without doubt the most famous is *Laelia purpurata*, the official flower of the state of Santa Catarina and its capital Florianópolis. The Orchid Atlas of Santa Catarina is a unique initiative to disclose clearly and objectively the occurrence of the Orchidaceae there. The methodology for the Atlas is basically to 1) research the 14 herbaria in the state of

Santa Catarina, as well as São Paulo and Rio de Janeiro, trying to identify the vouchers from Santa Catarina; 2) review existing literature for Orchidaceae of Santa Catarina; 3) perform field work in all biomes of Santa Catarina over two years, trying to identify the species found and seeking confirmation of what has been deposited in the herbaria as well as other collections that perhaps have not yet been identified or registered for the state; 4) use GPS and GIS to prepare thematic maps of biomes and the location of the species found; and 5) identify, map, and photograph the biomes, listing for each one the genera and species occurring there as well as botanical descriptions and photos of the habitat, the plant as a whole, and the individual flower. So far we have found and identified 119 works, 465 orchid species, two subspecies, four varieties, and 16 endemic species of Santa Catarina. Monitoring of project results can be viewed at [www.orkidariationsdodesterro.com.br](http://www.orkidariationsdodesterro.com.br).

## Orchidaceae of Campeche Island, Florianópolis, Santa Catarina

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Campeche Island was declared a National Landscape and Archaeological Site through the Ministerial Decree No. 270, July 2000. It has an area of 4.0 km<sup>2</sup>. The existing plant diversity in the Island of

Campeche is provided by the different habitats found there: 1) sandy coastline, characterized by having a poor soil consisting mainly of fragments of quartz (0.2 to 10.0 mm in size), high permeability to water, and