

Research of the diversity and distribution of the *Cattleya trianae* in ten regions, the department of Tolima – Colombia

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The largest number of orchid species in Colombia is concentrated in the Andean region. For this reason, it is the most studied area of the country. However, there is not a detailed study about the geographical distribution of the species and, in particular, of the *Cattleya* genus. Therefore, the goal of this research was to know aspects of the diversity and distribution of the *Cattleya trianae* in the department of Tolima - Colombia. Synthetic environmental profiles were build based on the ecological, climatic and environmental distribution conditions of *Cattleya trianae*. It was observed, a same species can be found under different altitude, temperature, soil type, precipitation, climate and evapotranspiration conditions. In this way, ten (10) regions were established where it is possible to find these species; six (6) *concolor* and one type varieties. It was observed, the species can possibly be found in a greater proportion in the central, north-eastern and south-eastern part of the department. In conclusion, it can be inferred that *Cattleya trianae* is a high adaptable species and it is geographical distributed in a strip that goes from the north-east to the south-east of the central part of the department.