**SUPPLEMENTARY MATERIAL**

**Title: ABIOTIC NICHE PARTITIONING AMONG CONGENERIC SPECIES IN AN ATLANTIC FOREST FRAGMENT**

**Journal: Journal of tropical ecology**

**Table S1.** Mean and standard deviation of abiotic variables collected in the ten plots established in Mata do Pau Ferro State Park. Abbreviations: PAR, Photosynthetically Active Radiation; K, potassium; Ca, Calcium.

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| **Abiotic variables** |
|  | PAR (mol MJ-1) | Moisture (%) | Sand (%) | Silt (%) | K (mg dm­-3) | Ca (cmolc dm-3) |
| **Mean**  | 6.286 | 22.551 | 61.61 | 7.49 | 92.881 | 1.617 |
| **Standard deviation** | 3.390 | 6.867 | 11.531 | 2.402 | 71.595 | 1.070 |

**Table S2.** Phytosociological parameters of the focal species of the study. Sampling units in which the species were observed, number of individuals, frequency of occurrence, and relative frequency.

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| **Species** | **Frequency across samples** | **Nº of individuals** | **Relative frequency (%)** |
|
| *Erythroxylum citrifolium* | 5 | 69 | 6.72 |
| *Erythroxylum pauferrense*  | 8 | 177 | 17.23 |
| *Erythroxylum simonis*  | 10 | 781 | 76.04 |

Figure S1.Spearman's correlation matrix of the 15 environmental variables collected in the study area. Abbreviations: C, Carbon; H+Al, hydrogen plus aluminum; Al, aluminum; PAR, Photosynthetically Active Radiation; Na, sodium; K, potassium; P, phosphorus; pH, hydrogenic potential; Mg, Magnesium; Ca, Calcium.



Figure S2. Response of the abundance (absolute values) of the *E. citrifolium*, *E. pauferrense* and *E. simonis* along gradients of environmental variables in the ten study plots in a landscape Brazilian Atlantic Tropical Rainforest. Abbreviations: PAR, Photosynthetically Active Radiation.

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