

# State of Rio de Janeiro, Brazil

## Selected Vascular Epiphytes of Rio de Janeiro Botanical Garden

1

Claudia Maria Ferrari Barbosa<sup>1</sup>, Diego Rafael Gonzaga<sup>1</sup>, Alexandre de Abreu Machado<sup>1</sup>,  
Samyra Gomes Furtado<sup>2</sup>, Claudine Massi Mynssen<sup>1</sup>

<sup>1</sup>Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, <sup>2</sup>Uniacademia – Centro Acadêmico

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The Botanical Garden of Rio de Janeiro is a research institute committed to global strategies for plant conservation. In this study, a survey of the vascular epiphytes of the JBRJ arboretum was carried out, covering the taxa found in the field and the exsiccates recorded in the herbarium. A total of 1,210 phorophytes were examined, their trunks divided into three ecological zones: from the ground to 1.3 m; 1.3 m to the base of the canopy; and canopy. The fertile specimens were photographed, collected, identified and incorporated into the herbarium of the Botanical Garden (RB).

A total of 105 species of epiphytes (holoepiphytes and accidental epiphytes) were recorded, belonging to 30 families and 66 genera. Bromeliaceae (22.86%), Orchidaceae (11.43%) and Polypodiaceae (10.47%) had the largest number of species, especially the genus *Aechmea* Ruiz & Pav. (Bromeliaceae). The families with the largest numbers of individuals were Bromeliaceae, Polypodiaceae and Cactaceae, with a predominance of the genus *Tillandsia* L. (Bromeliaceae).

The predominant ecological category was facultative holoepiphytes, with 39 species. Three species are at risk of extinction: the bromeliads *Canistrum alagoanum* Leme & J.A. Siqueira (Endangered) and *Aechmea bambusoides* L.B.Sm. & Reitz (Vulnerable), and the cactus *Rhipsalis mesembryanthemoides* Haw. (Endangered). This guide was produced as part of the first author's master's dissertation.

1

Rio de Janeiro Botanic Garden - JBRJ



2 *Strobilanthes reptans*  
ACANTHACEAE



3 *Strobilanthes reptans*  
ACANTHACEAE



4 *Ruellia* sp.  
ACANTHACEAE



5 *Ruellia* sp.  
ACANTHACEAE

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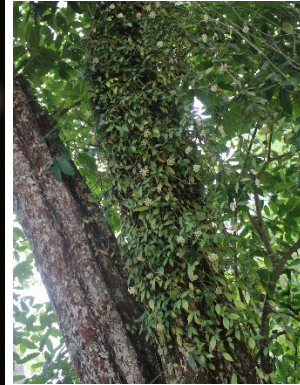
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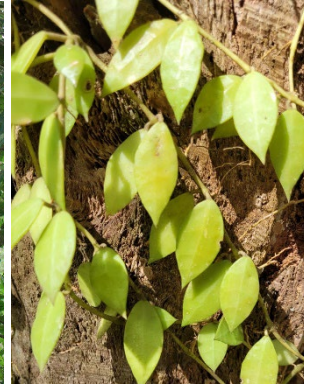
6 *Hoya carnosa*  
APOCYNACEAE



7 *Hoya carnosa*  
APOCYNACEAE



8 *Hoya lacunosa*  
APOCYNACEAE



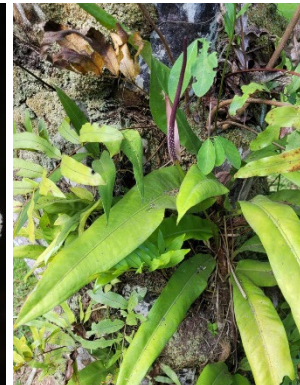
9 *Hoya lacunosa*  
APOCYNACEAE



10 *Hoya lacunosa*  
APOCYNACEAE



11 *Hoya lacunosa*  
APOCYNACEAE



12 *Anthurium harrisii*  
ARACEAE



13 *Anthurium harrisii*  
ARACEAE



14 *Anthurium harrisii*  
ARACEAE



15 *Anthurium harrisii*  
ARACEAE



16 *Anthurium scandens*  
ARACEAE



17 *Anthurium scandens*  
ARACEAE

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18 *Anthurium scandens*  
ARACEAE



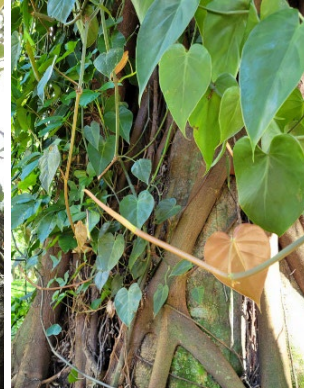
19 *Anthurium scandens*  
ARACEAE



20 *Anthurium solitarium*  
ARACEAE



21 *Anthurium solitarium*  
ARACEAE



22 *Philodendron hederaceum*  
ARACEAE



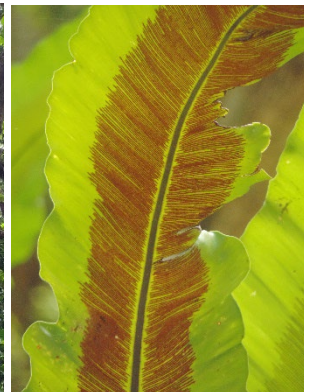
23 *Dianella tasmanica*  
ASPHODELACEAE



24 *Dianella tasmanica*  
ASPHODELACEAE



25 *Asplenium nidus*  
ASPLENIACEAE



26 *Asplenium nidus*  
ASPLENIACEAE



27 *Elephantopus* sp.  
ASTERACEAE



28 *Elephantopus* sp.  
ASTERACEAE



29 *Elephantopus* sp.  
ASTERACEAE



30 *Emilia* sp.  
ASTERACEAE

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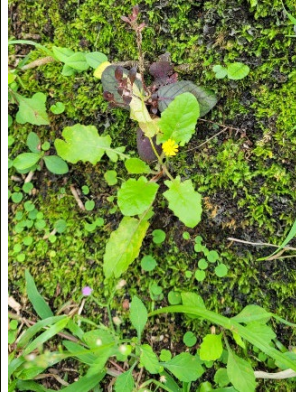
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31 *Emilia* sp.  
ASTERACEAE



32 *Youngia japonica*  
ASTERACEAE



33 *Youngia japonica*  
ASTERACEAE



34 *Youngia japonica*  
ASTERACEAE



35 *Deparia petersenii*  
ATHYRIACEAE



36 *Deparia petersenii*  
ATHYRIACEAE



37 *Deparia petersenii*  
ATHYRIACEAE



38 *Acanthostachys strobilacea*  
BROMELIACEAE



39 *Acanthostachys strobilacea*  
BROMELIACEAE



40 *Aechmea bambusoides*  
BROMELIACEAE



41 *Aechmea bambusoides*  
BROMELIACEAE



42 *Aechmea bambusoides*  
BROMELIACEAE

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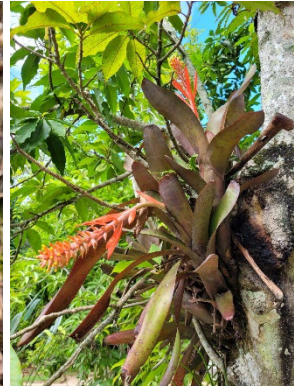
65" *Aechmea floribunda*  
BROMELIACEAE



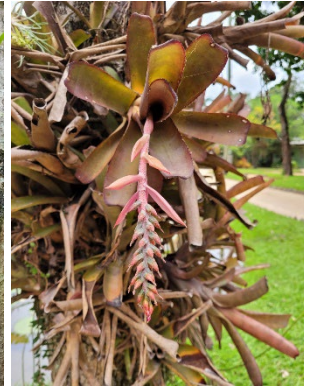
66" *Aechmea floribunda*  
BROMELIACEAE



67" *Aechmea floribunda*  
BROMELIACEAE



68" *Aechmea nudicaulis*  
BROMELIACEAE



69" *Aechmea nudicaulis*  
BROMELIACEAE



6:" *Aechmea nudicaulis*  
BROMELIACEAE



6;" *Aechmea nudicaulis*  
BROMELIACEAE



72" *Aechmea purpureorosea*  
BROMELIACEAE



73" *Aechmea purpureorosea*  
BROMELIACEAE



74" *Aechmea purpureorosea*  
BROMELIACEAE



75" *Aechmea ramosa*  
BROMELIACEAE



76" *Aechmea ramosa*  
BROMELIACEAE

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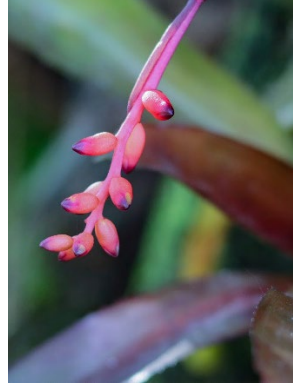
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55 *Aechmea victoriana*  
BROMELIACEAE



56 *Aechmea victoriana*  
BROMELIACEAE



57 *Billbergia euphemiae*  
BROMELIACEAE



58 *Billbergia iridifolia*  
BROMELIACEAE



59 *Billbergia pyramidalis*  
BROMELIACEAE



60 *Billbergia pyramidalis*  
BROMELIACEAE



61 *Billbergia pyramidalis*  
BROMELIACEAE



62 *Billbergia zebrina*  
BROMELIACEAE



63 *Billbergia zebrina*  
BROMELIACEAE



64 *Billbergia zebrina*  
BROMELIACEAE



65 *Canistrum alagoanum*  
BROMELIACEAE



66 *Canistrum alagoanum*  
BROMELIACEAE

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89" *Canistrum alagoanum*  
BROMELIACEAE



8:" *Hohenbergia augusta*  
BROMELIACEAE



8;" *Hohenbergia augusta*  
BROMELIACEAE



92" *Hohenbergia augusta*  
BROMELIACEAE



93" *Hohenbergia stellata*  
BROMELIACEAE



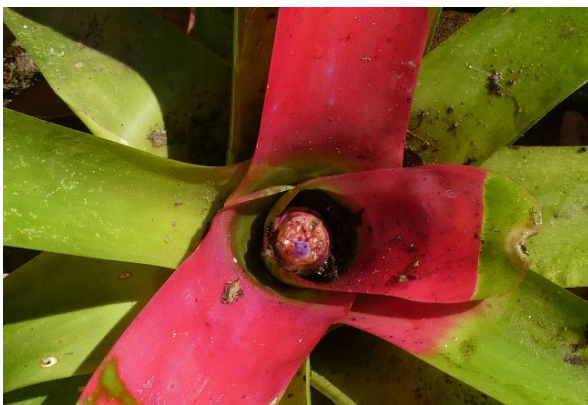
94" *Hohenbergia stellata*  
BROMELIACEAE



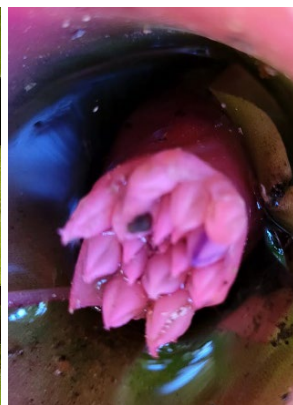
95" *Hohenbergia stellata*  
BROMELIACEAE



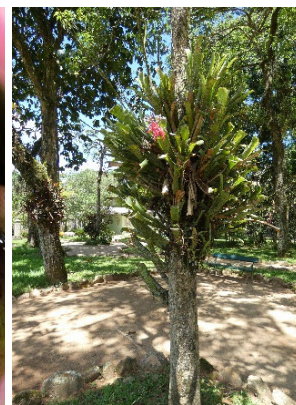
96" *Neoregelia compacta*  
BROMELIACEAE



97" *Neoregelia compacta*  
BROMELIACEAE



98" *Neoregelia compacta*  
BROMELIACEAE



99" *Quesnelia marmorata*  
BROMELIACEAE



9:" *Quesnelia marmorata*  
BROMELIACEAE

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9;" *Quesnelia marmorata*  
BROMELIACEAE



:2" *Tillandsia gardneri*  
BROMELIACEAE



:3" *Tillandsia gardneri*  
BROMELIACEAE



:4" *Tillandsia gardneri*  
BROMELIACEAE



:5" *Tillandsia gardneri*  
BROMELIACEAE



:6" *Tillandsia geminiflora*  
BROMELIACEAE



:7" *Tillandsia geminiflora*  
BROMELIACEAE



:8" *Tillandsia recurvata*  
BROMELIACEAE "



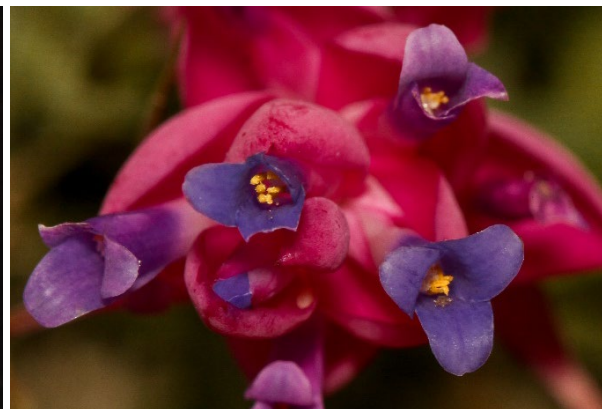
:9" *Tillandsia recurvata*  
BROMELIACEAE "



::" *Tillandsia stricta*  
BROMELIACEAE



::;" *Tillandsia stricta*  
BROMELIACEAE



;2" *Tillandsia stricta*  
BROMELIACEAE

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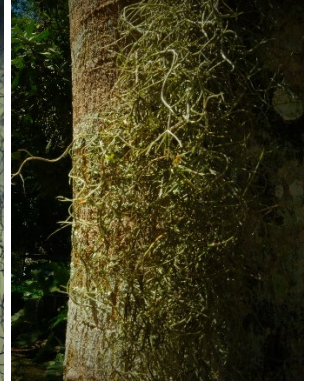
91 *Tillandsia tricholepis*  
BROMELIACEAE



92 *Tillandsia tricholepis*  
BROMELIACEAE



93 *Tillandsia usneoides*  
BROMELIACEAE



94 *Tillandsia usneoides*  
BROMELIACEAE



95 *Tillandsia usneoides*  
BROMELIACEAE



96 *Tillandsia usneoides*  
BROMELIACEAE



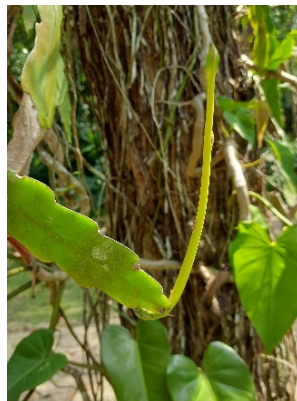
97 *Tillandsia usneoides*  
BROMELIACEAE



98 *Tillandsia usneoides*  
BROMELIACEAE



99 *Epiphyllum phyllanthus*  
CACTACEAE



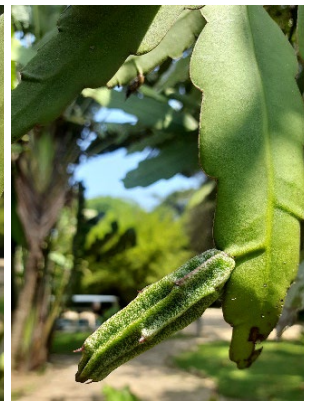
100 *Epiphyllum phyllanthus*  
CACTACEAE



101 *Epiphyllum phyllanthus*  
CACTACEAE



102 *Epiphyllum phyllanthus*  
CACTACEAE



103 *Epiphyllum phyllanthus*  
CACTACEAE

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104 *Epiphyllum phyllanthus*  
CACTACEAE



105 *Epiphyllum phyllanthus*  
CACTACEAE



106 *Lepismium cruciforme*  
CACTACEAE



107 *Lepismium cruciforme*  
CACTACEAE



108 *Lepismium houlettianum*  
CACTACEAE



109 *Lepismium houlettianum*  
CACTACEAE



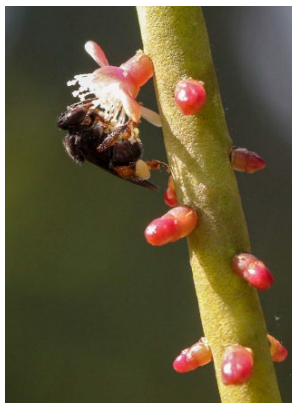
110 *Lepismium houlettianum*  
CACTACEAE



111 *Rhipsalis lindbergiana*  
CACTACEAE



112 *Rhipsalis lindbergiana*  
CACTACEAE



113 *Rhipsalis lindbergiana*  
CACTACEAE



114 *Rhipsalis lindbergiana*  
CACTACEAE



115 *Rhipsalis lindbergiana*  
CACTACEAE

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116 *Rhipsalis mesembryanthemoides*  
CACTACEAE



117 *Rhipsalis mesembryanthemoides*  
CACTACEAE



118 *Rhipsalis mesembryanthemoides*  
CACTACEAE



119 *Rhipsalis mesembryanthemoides*  
CACTACEAE



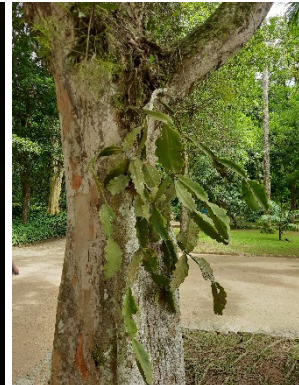
120 *Rhipsalis neves-armondii*  
CACTACEAE



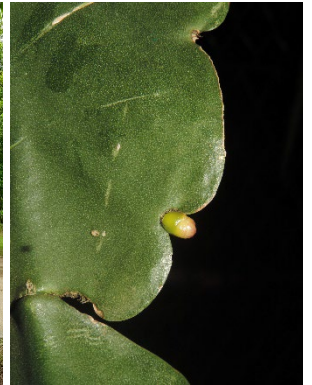
121 *Rhipsalis neves-armondii*  
CACTACEAE



122 *Rhipsalis neves-armondii*  
CACTACEAE



123 *Rhipsalis pachyptera*  
CACTACEAE



124 *Rhipsalis pachyptera*  
CACTACEAE



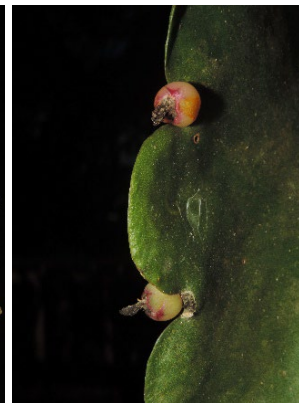
125 *Rhipsalis pachyptera*  
CACTACEAE



126 *Rhipsalis pachyptera*  
CACTACEAE  
M. Massao



127 *Rhipsalis pachyptera*  
CACTACEAE



128 *Rhipsalis pachyptera*  
CACTACEAE



129 *Rhipsalis teres*  
CACTACEAE

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130

*Rhipsalis teres*  
CACTACEAE



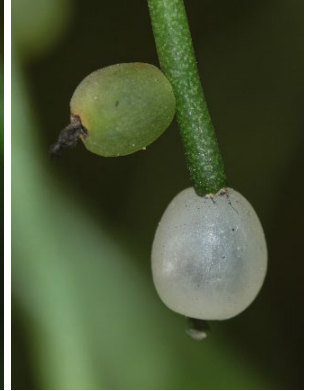
131

*Rhipsalis teres*  
CACTACEAE



132

*Rhipsalis teres*  
CACTACEAE



133

*Rhipsalis teres*  
CACTACEAE



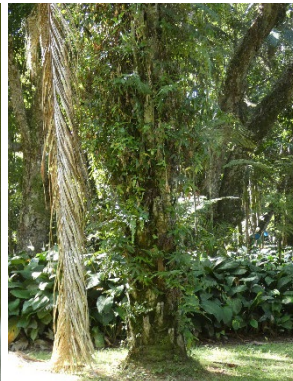
134

*Drymaria cordata*  
CARYOPHYLLACEAE



135

*Drymaria cordata*  
CARYOPHYLLACEAE



136

*Aneilema brasiliense*  
COMMELINACEAE



137

*Aneilema brasiliense*  
COMMELINACEAE



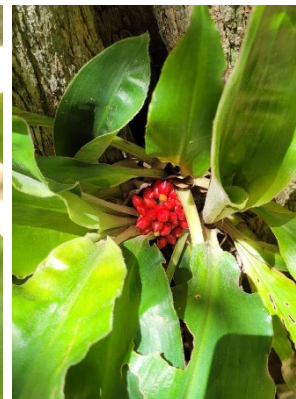
138

*Commelina erecta*  
COMMELINACEAE



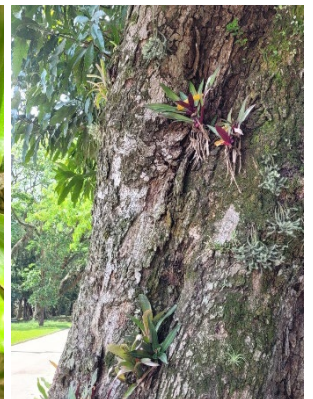
139

*Palisota barteri*  
COMMELINACEAE



140

*Palisota barteri*  
COMMELINACEAE



141

*Tradescantia spathacea*  
COMMELINACEAE

# State of Rio de Janeiro, Brazil Selected Vascular Epiphytes of Rio de Janeiro Botanical Garden

Claudia Maria Ferrari Barbosa<sup>1</sup>, Diego Rafael Gonzaga<sup>1</sup>, Alexandre de Abreu Machado<sup>1</sup>,  
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<sup>1</sup>Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, <sup>2</sup>Uniacademia – Centro Acadêmico

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142 *Tradescantia spathacea*  
COMMELINACEAE



143 *Tradescantia spathacea*  
COMMELINACEAE



144 *Tripogandra diuretica*  
COMMELINACEAE



145 *Cyperus* sp.  
CYPERACEAE



146 *Davallia fejeensis*  
DAVALLIACEAE



147 *Davallia fejeensis*  
DAVALLIACEAE



148 *Nemanthus crassifolius*  
GESNERIACEAE



149 *Nemanthus crassifolius*  
GESNERIACEAE



150 *Nemanthus crassifolius*  
GESNERIACEAE



151 *Hypoxis decumbens*  
HYPOXIDACEAE



152 *Grona triflora*  
LEGUMINOSAE

# State of Rio de Janeiro, Brazil

## Selected Vascular Epiphytes of Rio de Janeiro Botanical Garden

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153 *Grona triflora*  
LEGUMINOSAE



154 *Grona triflora*  
LEGUMINOSAE



155 *Ficus clusiifolia*  
MORACEAE



156 *Nephrolepis brownii*  
NEPHROLEPIDACEAE



157 *Nephrolepis brownii*  
NEPHROLEPIDACEAE



158 *Nephrolepis brownii*  
NEPHROLEPIDACEAE



159 *Nephrolepis brownii*  
NEPHROLEPIDACEAE



160 *Nephrolepis cordifolia*  
NEPHROLEPIDACEAE



161 *Nephrolepis cordifolia*  
NEPHROLEPIDACEAE



162 *Nephrolepis cordifolia*  
NEPHROLEPIDACEAE



163 *Acianthera bidentula*  
ORCHIDACEAE



164 *Acianthera bidentula*  
ORCHIDACEAE



165 *Acianthera bidentula*  
ORCHIDACEAE

# State of Rio de Janeiro, Brazil Selected Vascular Epiphytes of Rio de Janeiro Botanical Garden

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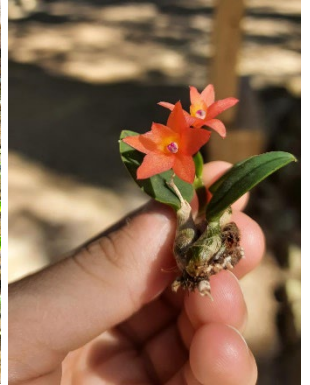
166 *Acianthera bidentula*  
ORCHIDACEAE



167 *Cattleya cernua*  
ORCHIDACEAE



168 *Cattleya cernua*  
ORCHIDACEAE



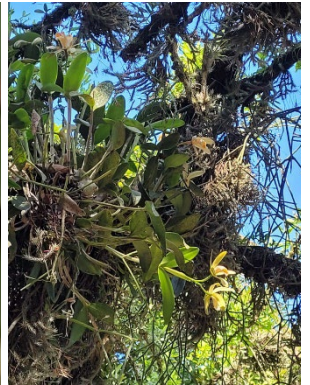
169 *Cattleya cernua*  
ORCHIDACEAE



170 *Cattleya cernua*  
ORCHIDACEAE



171 *Cattleya cernua*  
ORCHIDACEAE



172 *Cattleya forbesii*  
ORCHIDACEAE



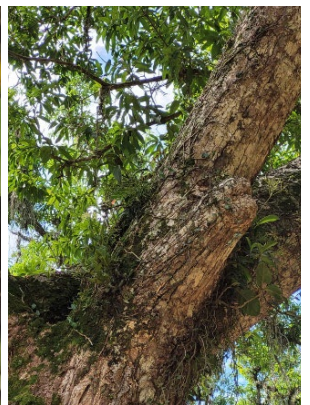
173 *Cattleya forbesii*  
ORCHIDACEAE



174 *Cattleya forbesii*  
ORCHIDACEAE



175 *Cattleya forbesii*  
ORCHIDACEAE



176 *Epidendrum pseudodiforme*  
ORCHIDACEAE

State of Rio de Janeiro, Brazil  
Selected Vascular Epiphytes of Rio de Janeiro Botanical Garden

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177 *Epidendrum pseudodiforme*  
ORCHIDACEAE



178 *Epidendrum pseudodiforme*  
ORCHIDACEAE



179 *Gomesa flexuosa*  
ORCHIDACEAE



180 *Gomesa flexuosa*  
ORCHIDACEAE



181 *Gomesa flexuosa*  
ORCHIDACEAE



182 *Lankesterella ceracifolia*  
ORCHIDACEAE



183 *Lankesterella ceracifolia*  
ORCHIDACEAE



184 *Lankesterella ceracifolia*  
ORCHIDACEAE



185 *Lankesterella ceracifolia*  
ORCHIDACEAE



186 *Lankesterella ceracifolia*  
ORCHIDACEAE

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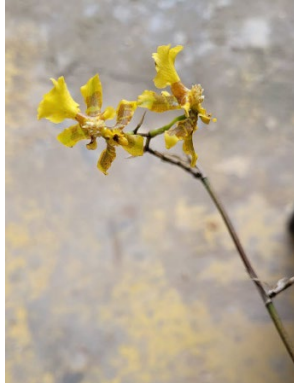
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187 *Lankesterella ceracifolia*  
ORCHIDACEAE



188 *Oncidium baueri*  
ORCHIDACEAE



189 *Oncidium baueri*  
ORCHIDACEAE



190 *Polystachya estrellensis*  
ORCHIDACEAE



191 *Polystachya estrellensis*  
ORCHIDACEAE



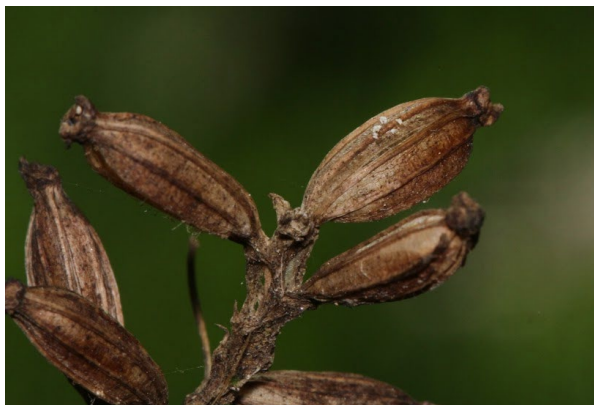
192 *Polystachya estrellensis*  
ORCHIDACEAE



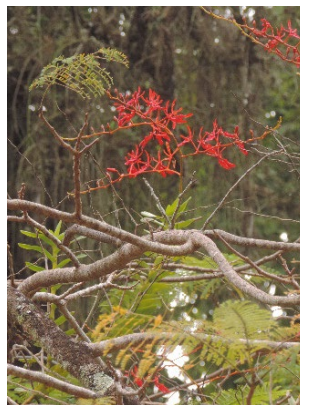
193 *Polystachya estrellensis*  
ORCHIDACEAE



194 *Polystachya estrellensis*  
ORCHIDACEAE



195 *Polystachya estrellensis*  
ORCHIDACEAE



196 *Renanthera coccinea*  
ORCHIDACEAE

# State of Rio de Janeiro, Brazil

## Selected Vascular Epiphytes of Rio de Janeiro Botanical Garden

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197

*Renanthera coccinea*  
ORCHIDACEAE



198

*Trichocentrum fuscum*  
ORCHIDACEAE



199

*Trichocentrum fuscum*  
ORCHIDACEAE



200

*Trichocentrum fuscum*  
ORCHIDACEAE



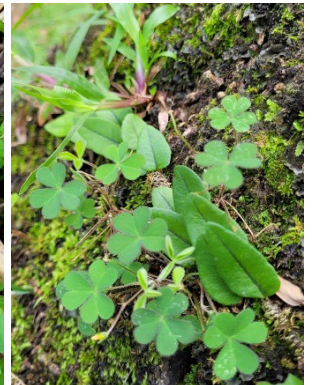
201

*Trichocentrum fuscum*  
ORCHIDACEAE



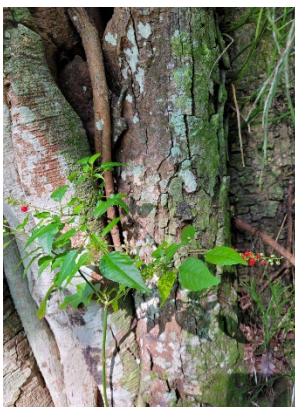
202

*Biophytum dendroides*  
OXALIDACEAE



203

*Oxalis corniculata*  
OXALIDACEAE



204

*Rivina humilis*  
PHYTOLACCACEAE



205

*Rivina humilis*  
PHYTOLACCACEAE



206

*Rivina humilis*  
PHYTOLACCACEAE

# State of Rio de Janeiro, Brazil

## Selected Vascular Epiphytes of Rio de Janeiro Botanical Garden

19

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207 *Peperomia glazioui*  
PIPERACEAE



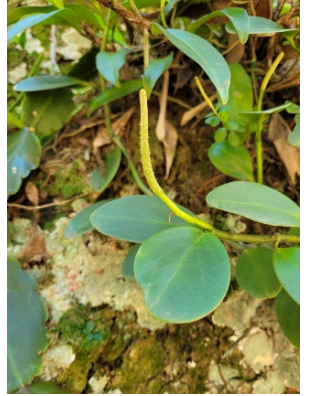
208 *Peperomia magnoliifolia*  
PIPERACEAE



209 *Peperomia magnoliifolia*  
PIPERACEAE



210 *Peperomia obtusifolia*  
PIPERACEAE



211 *Peperomia obtusifolia*  
PIPERACEAE



212 *Peperomia psilostachya*  
PIPERACEAE



213 *Oplismenus* sp.  
POACEAE



214 *Oplismenus* sp.  
POACEAE



215 *Campyloneurum rigidum*  
POLYPODIACEAE



216 *Campyloneurum rigidum*  
POLYPODIACEAE



217 *Goniophlebium subauriculatum*  
POLYPODIACEAE



218 *Goniophlebium subauriculatum*  
POLYPODIACEAE



219 *Goniophlebium subauriculatum*  
POLYPODIACEAE

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20

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220 *Microgramma squamulosa*  
POLYPODIACEAE



221 *Microgramma squamulosa*  
POLYPODIACEAE



222 *Microgramma vacciniifolia*  
POLYPODIACEAE



223 *Microgramma vacciniifolia*  
POLYPODIACEAE



224 *Microgramma vacciniifolia*  
POLYPODIACEAE



225 *Microgramma vacciniifolia*  
POLYPODIACEAE



226 *Pecuma filicula*  
POLYPODIACEAE



227 *Pecuma filicula*  
POLYPODIACEAE



228 *Pecuma filicula*  
POLYPODIACEAE



229 *Phlebodium aureum*  
POLYPODIACEAE



230 *Phlebodium aureum*  
POLYPODIACEAE



231 *Phlebodium aureum*  
POLYPODIACEAE

# State of Rio de Janeiro, Brazil

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232 *Pleopeltis astrolepis*  
POLYPODIACEAE



233 *Pleopeltis astrolepis*  
POLYPODIACEAE



234 *Pleopeltis hirsutissima*  
POLYPODIACEAE



235 *Pleopeltis minima*  
POLYPODIACEAE



236 *Pleopeltis minima*  
POLYPODIACEAE



237 *Pleopeltis minima*  
POLYPODIACEAE



238 *Pleopeltis pleopeltifolia*  
POLYPODIACEAE



239 *Pleopeltis pleopeltifolia*  
POLYPODIACEAE



240 *Serpocaulon triseriale*  
POLYPODIACEAE



241 *Serpocaulon triseriale*  
POLYPODIACEAE



242 *Serpocaulon triseriale*  
POLYPODIACEAE

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243 *Psilotum nudum*  
PSILOTACEAE



244 *Psilotum nudum*  
PSILOTACEAE



245 *Psilotum nudum*  
PSILOTACEAE



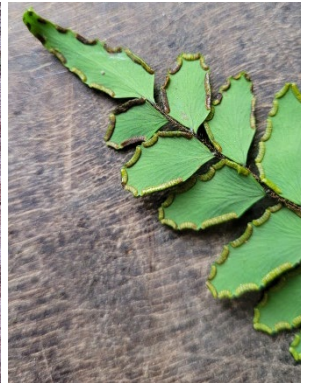
246 *Adiantum capillus-veneris*  
PTERIDACEAE



247 *Adiantum capillus-veneris*  
PTERIDACEAE



248 *Adiantum latifolium*  
PTERIDACEAE



249 *Adiantum latifolium*  
PTERIDACEAE



250 *Pteris vittata*  
PTERIDACEAE



251 *Pteris vittata*  
PTERIDACEAE



252 *Vittaria lineata*  
PTERIDACEAE



253 *Vittaria lineata*  
PTERIDACEAE



254 *Hillia ulei*  
RUBIACEAE

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255 *Hillia ulei*  
RUBIACEAE



256 *Hillia ulei*  
RUBIACEAE



257 *Hillia ulei*  
RUBIACEAE



258 *Hillia ulei*  
RUBIACEAE



259 *Hillia ulei*  
RUBIACEAE



260 *Hillia ulei*  
RUBIACEAE



261 *Selaginella plana*  
SELAGINELLACEAE



262 *Selaginella plana*  
SELAGINELLACEAE



263 *Pilea microphylla*  
URTICACEAE



264 *Pilea microphylla*  
URTICACEAE



265 Claudia M. Ferrari Barbosa  
at Rio de Janeiro Botanic  
Garden - JBRJ