

Costa Rica

Palicourea (Rubiaceae: Palicoureeae) of Costa Rica

Andreas Berger

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1 *Palicourea acicularis*2 *Palicourea acicularis*3 *Palicourea acicularis*4 *Palicourea acicularis*
pin flower morph5 *Palicourea acicularis*6 *Palicourea acuminata*7 *Palicourea acuminata*8 *Palicourea acuminata*
thrum flower morph9 *Palicourea acuminata*
thrum flower morph10 *Palicourea acuminata*11 *Palicourea acuminata*12 *Palicourea acuminata*13 *Palicourea adusta*14 *Palicourea adusta*15 *Palicourea adusta*

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16 *Palicourea adusta*
pin flower morph17 *Palicourea adusta*18 *Palicourea alajuelensis*19 *Palicourea alajuelensis*20 *Palicourea alajuelensis*21 *Palicourea alajuelensis*22 *Palicourea albocaerulea*23 *Palicourea albocaerulea*24 *Palicourea albocaerulea*25 *Palicourea albocaerulea*26 *Palicourea allenii*27 *Palicourea allenii*28 *Palicourea allenii*29 *Palicourea allenii*30 *Palicourea angustiflora*

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31 *Palicourea angustiflora*32 *Palicourea angustiflora*33 *Palicourea angustiflora*34 *Palicourea angustifolia*35 *Palicourea angustifolia*36 *Palicourea angustifolia*37 *Palicourea angustifolia*
thrum flower morph38 *Palicourea angustifolia*39 *Palicourea angustifolia*40 *Palicourea aurantiibractea*41 *Palicourea aurantiibractea*42 *Palicourea aurantiibractea*43 *Palicourea axillaris*44 *Palicourea axillaris*45 *Palicourea axillaris*
thrum flower morph

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46 *Palicourea axillaris*
pin flower morph



47 *Palicourea axillaris*



48 *Palicourea beachiana*



49 *Palicourea beachiana*



50 *Palicourea bellula*



51 *Palicourea bellula*



52 *Palicourea bellula*



53 *Palicourea berteriana*



54 *Palicourea berteriana*



55 *Palicourea berteriana*



56 *Palicourea berteriana*
thrum flower morph



57 *Palicourea berteriana*



58 *Palicourea brachiata*



59 *Palicourea brachiata*



60 *Palicourea brachiata*

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61 *Palicourea brachiata*
pin flower morph



62 *Palicourea brachiata*



63 *Palicourea brachiata*



64 *Palicourea brenesii*



65 *Palicourea brenesii*



66 *Palicourea brenesii*



67 *Palicourea brenesii*
thrum flower morph



68 *Palicourea brenesii*



69 *Palicourea calidicola*



70 *Palicourea calidicola*



71 *Palicourea calidicola*



72 *Palicourea calidicola*



73 *Palicourea calidicola*
pin flower morph



74 *Palicourea calidicola*



75 *Palicourea carnosocarpa*

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76 *Palicourea carnosocarpa* 77 *Palicourea carnosocarpa* 78 *Palicourea carruthersii* 79 *Palicourea carruthersii* 80 *Palicourea carruthersii*



81 *Palicourea carruthersii* thrum flower morph 82 *Palicourea carruthersii* 83 *Palicourea chiriquensis* 84 *Palicourea chiriquensis* 85 *Palicourea chiriquensis*



86 *Palicourea chiriquensis* 87 *Palicourea chiriquensis* pin flower morph 88 *Palicourea chiriquensis* 89 *Palicourea chiriquina* 90 *Palicourea chiriquina*

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91 *Palicourea chiriquina*92 *Palicourea correae*93 *Palicourea correae*94 *Palicourea correae*95 *Palicourea correae*96 *Palicourea crocea*97 *Palicourea crocea*98 *Palicourea crocea*99 *Palicourea crocea*100 *Palicourea croceovenosa*101 *Palicourea croceovenosa*102 *Palicourea croceovenosa*103 *Palicourea croceovenosa*104 *Palicourea cyanococca*105 *Palicourea cyanococca*

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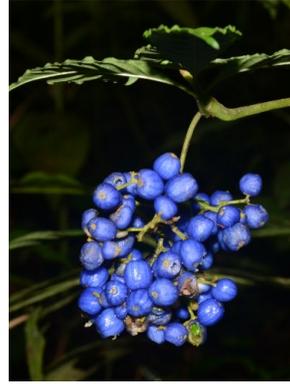
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106 *Palicourea cyanococca*



107 *Palicourea cyanococca*
thrum flower morph



108 *Palicourea cyanococca*



109 *Palicourea deflexa*



110 *Palicourea deflexa*



111 *Palicourea deflexa*



112 *Palicourea deflexa*
thrum flower morph



113 *Palicourea deflexa*



114 *Palicourea deflexa*



115 *Palicourea dichotoma*



116 *Palicourea dichotoma*
thrum flower morph



117 *Palicourea dichotoma*



118 *Palicourea discolor*



119 *Palicourea discolor*



120 *Palicourea discolor*

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121 *Palicourea discolor*



122 *Palicourea domingensis*



123 *Palicourea domingensis*



124 *Palicourea domingensis*



125 *Palicourea elata*



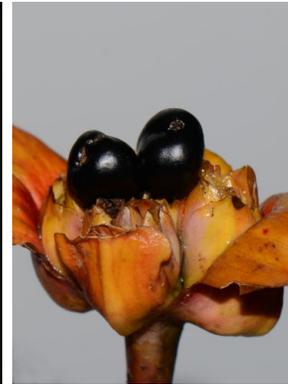
126 *Palicourea elata*



127 *Palicourea elata*



128 *Palicourea elata*



129 *Palicourea elata*



130 *Palicourea eurycarpa*



131 *Palicourea eurycarpa*
thrum flower morph



132 *Palicourea eurycarpa*



133 *Palicourea furcata*



134 *Palicourea furcata*



135 *Palicourea furcata*

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136 *Palicourea furcata*
thrum flower morph



137 *Palicourea furcata*



138 *Palicourea galeottiana*



139 *Palicourea galeottiana*



140 *Palicourea galeottiana*
thrum flower morph



141 *Palicourea garciae*



142 *Palicourea garciae*



143 *Palicourea garciae*



144 *Palicourea garciae*



145 *Palicourea garciae*
flower bud



146 *Palicourea glomerulata*



147 *Palicourea glomerulata*



148 *Palicourea glomerulata*
pin flower morph



149 *Palicourea glomerulata*



150 *Palicourea goldmanii*

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151 *Palicourea goldmanii*



152 *Palicourea goldmanii*



153 *Palicourea goldmanii*
pin flower morph



154 *Palicourea goldmanii*



155 *Palicourea gomezii*



156 *Palicourea gomezii*



157 *Palicourea gomezii*
pin flower morph



158 *Palicourea gomezii*



159 *Palicourea gracilentia*



160 *Palicourea gracilentia*



161 *Palicourea gracilentia*
pin flower morph



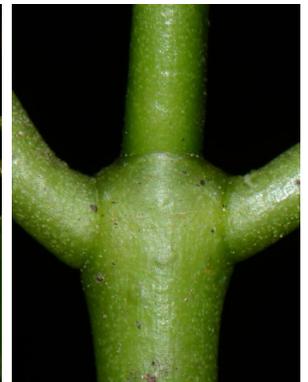
162 *Palicourea gracilentia*



163 *Palicourea gracilentia*



164 *Palicourea grandifrutta*



165 *Palicourea grandifrutta*

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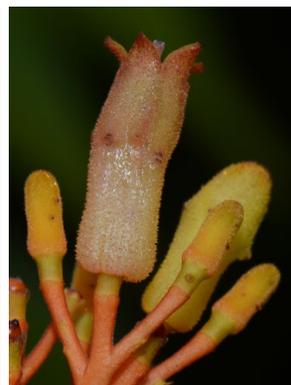
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166 *Palicourea grandifructa*167 *Palicourea guianensis*168 *Palicourea guianensis*169 *Palicourea guianensis*170 *Palicourea guianensis*
pin flower morph171 *Palicourea guianensis*172 *Palicourea hammelii*173 *Palicourea hammelii*174 *Palicourea hazenii*
subsp. *centroamericana*175 *Palicourea hazenii*
subsp. *centroamericana*176 *Palicourea hazenii*
subsp. *centroamericana*177 *Palicourea hazenii*
subsp. *centroamericana*178 *Palicourea hazenii*
subsp. *centroamericana*179 *Palicourea hazenii*
subsp. *centroamericana*180 *Palicourea hebeclada*

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181 *Palicourea hebeclada*182 *Palicourea hebeclada*
pin flower morph183 *Palicourea hebeclada*184 *Palicourea hebeclada*185 *Palicourea hoffmannseggiana*186 *Palicourea hoffmannseggiana*187 *Palicourea hoffmannseggiana*188 *Palicourea hoffmannseggiana*
pin flower morph189 *Palicourea hoffmannseggiana*190 *Palicourea hondensis*191 *Palicourea hondensis*192 *Palicourea hondensis*193 *Palicourea hondensis*194 *Palicourea hondensis*195 *Palicourea hondensis*

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196 *Palicourea horquetensis*



197 *Palicourea horquetensis*



198 *Palicourea horquetensis*



199 *Palicourea lancifera*



200 *Palicourea lancifera*



201 *Palicourea lancifera*



202 *Palicourea lancifera*



203 *Palicourea lasiorrhachis*



204 *Palicourea lasiorrhachis*



205 *Palicourea lasiorrhachis*



206 *Palicourea lasiorrhachis*



207 *Palicourea lasiorrhachis*
pin flower morph



208 *Palicourea lasiorrhachis*



209 *Palicourea longicuspis*



210 *Palicourea longicuspis*

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211 *Palicourea longicuspis*212 *Palicourea longicuspis*213 *Palicourea longicuspis*214 *Palicourea longicuspis*
thrum flower morph215 *Palicourea luxurians*216 *Palicourea luxurians*217 *Palicourea luxurians*218 *Palicourea luxurians*219 *Palicourea luxurians*220 *Palicourea macrocalyx*221 *Palicourea macrocalyx*222 *Palicourea macrocalyx*223 *Palicourea macrocalyx*224 *Palicourea macrocalyx*225 *Palicourea matamana*

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226 *Palicourea matamana*



227 *Palicourea montivaga*



228 *Palicourea montivaga*



229 *Palicourea montivaga*



230 *Palicourea montivaga*



231 *Palicourea montivaga*



232 *Palicourea montivaga*
pin flower morph



233 *Palicourea montivaga*



234 *Palicourea mertoniana*



235 *Palicourea mertoniana*



236 *Palicourea mertoniana*



237 *Palicourea orosiana*



238 *Palicourea orosiana*



239 *Palicourea orosiana*



240 *Palicourea orosiana*
pin flower morph

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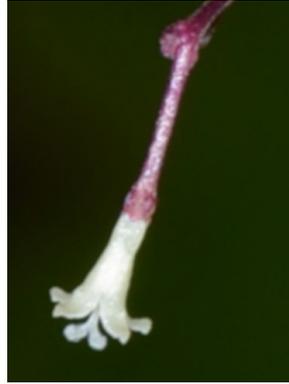
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241 *Palicourea osaensis*242 *Palicourea osaensis*243 *Palicourea osaensis*244 *Palicourea osaensis*
pin flower morph245 *Palicourea padifolia*246 *Palicourea padifolia*247 *Palicourea padifolia*248 *Palicourea padifolia*
thrum flower morph249 *Palicourea padifolia*250 *Palicourea palustris*251 *Palicourea palustris*252 *Palicourea palustris*253 *Palicourea palustris*254 *Palicourea pauciflora*255 *Palicourea pauciflora*

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256 *Palicourea pauciflora*



257 *Palicourea pauciflora*



258 *Palicourea pereziana*



259 *Palicourea pereziana*



260 *Palicourea pereziana*



261 *Palicourea pereziana*



262 *Palicourea phanerandra*



263 *Palicourea phanerandra*



264 *Palicourea phanerandra*



265 *Palicourea pilosa*



266 *Palicourea pilosa*



267 *Palicourea pilosa*
thrum flower morph



268 *Palicourea pilosa*



269 *Palicourea pilosa*



270 *Palicourea providenciana*

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271 *Palicourea providenciana*272 *Palicourea providenciana*273 *Palicourea providenciana*274 *Palicourea pseudaxillaris*275 *Palicourea pseudaxillaris*276 *Palicourea pseudaxillaris*
pin flower morph276 *Palicourea pseudaxillaris*277 *Palicourea pseudaxillaris*278 *Palicourea psychotrioides*279 *Palicourea psychotrioides*281 *Palicourea psychotrioides*282 *Palicourea pubescens*283 *Palicourea pubescens*284 *Palicourea pubescens*285 *Palicourea pubescens*
thrum flower morph

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286 *Palicourea pubescens*



287 *Palicourea purpurea*



288 *Palicourea purpurea*



289 *Palicourea purpurea*



290 *Palicourea racemosa*



291 *Palicourea racemosa*



292 *Palicourea racemosa*



293 *Palicourea racemosa*



294 *Palicourea racemosa*



295 *Palicourea ramonensis*



296 *Palicourea ramonensis*



297 *Palicourea ramonensis*



298 *Palicourea ramonensis*
pin flower morph



299 *Palicourea ramonensis*



300 *Palicourea salicifolia*

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301 *Palicourea salicifolia*



302 *Palicourea salicifolia*
pin flower morph



303 *Palicourea salicifolia*



304 *Palicourea salicifolia*



305 *Palicourea schunkei*



306 *Palicourea schunkei*



307 *Palicourea schunkei*



308 *Palicourea schunkei*



309 *Palicourea schunkei*



310 *Palicourea seemannii*



311 *Palicourea seemannii*



312 *Palicourea seemannii*



313 *Palicourea seemannii*



314 *Palicourea simiarum*



315 *Palicourea simiarum*

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316 *Palicourea simiarum*317 *Palicourea skotakii*318 *Palicourea skotakii*319 *Palicourea skotakii*
thrum flower morph320 *Palicourea skotakii*321 *Palicourea solitudinum*322 *Palicourea solitudinum*323 *Palicourea solitudinum*324 *Palicourea solitudinum*325 *Palicourea solitudinum*326 *Palicourea solitudinum*327 *Palicourea spathacea*328 *Palicourea spathacea*329 *Palicourea spathacea*330 *Palicourea spathacea*
pin flower morph

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331 *Palicourea spathacea*



332 *Palicourea standleyana*



333 *Palicourea standleyana*



334 *Palicourea standleyana*



335 *Palicourea suerrensis*



336 *Palicourea suerrensis*



337 *Palicourea suerrensis*



338 *Palicourea suerrensis*
pin flower morph



339 *Palicourea suerrensis*



340 *Palicourea suerrensis*



341 *Palicourea tapantiensis*



342 *Palicourea tapantiensis*



343 *Palicourea tapantiensis*



344 *Palicourea tetragona*



345 *Palicourea tetragona*

Palicourea (Rubiaceae: Palicoureeae) of Costa Rica

Andreas Berger

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346 *Palicourea tetragona*



347 *Palicourea tetragona*



348 *Palicourea tetragona*
thrum flower morph



349 *Palicourea tetragona*



350 *Palicourea tetragona*



351 *Palicourea tetragona*
pyrene in cross section



352 *Palicourea tilaranensis*



353 *Palicourea tilaranensis*



354 *Palicourea tilaranensis*



355 *Palicourea tilaranensis*
thrum flower morph



356 *Palicourea tilaranensis*



357 *Palicourea tomentosa*



358 *Palicourea tomentosa*



359 *Palicourea tomentosa*



360 *Palicourea tomentosa*
thrum flower morph

Palicourea (Rubiaceae: Palicoureeae) of Costa Rica

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361 *Palicourea tomentosa*



362 *Palicourea tonduzii*



363 *Palicourea tonduzii*



364 *Palicourea tonduzii*



365 *Palicourea tonduzii*



366 *Palicourea torresiana*



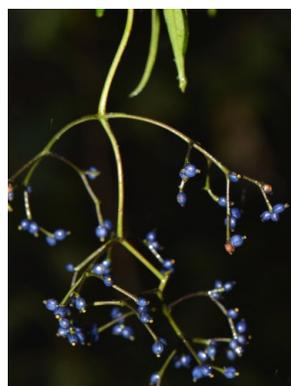
367 *Palicourea torresiana*



368 *Palicourea torresiana*



369 *Palicourea torresiana*
pin flower morph



370 *Palicourea torresiana*



371 *Palicourea torresiana*



372 *Palicourea triphylla*



373 *Palicourea triphylla*



374 *Palicourea triphylla*



375 *Palicourea triphylla*
pin flower morph

Palicourea (Rubiaceae: Palicoureeae) of Costa Rica

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376 *Palicourea tsakiana*



377 *Palicourea tsakiana*
stipular colleters



378 *Palicourea tsakiana*



379 *Palicourea tsakiana*



380 *Palicourea tsakiana*



381 *Palicourea umbelliformis*



382 *Palicourea umbelliformis*



383 *Palicourea umbelliformis*



384 *Palicourea valeriana*



385 *Palicourea valeriana*



386 *Palicourea valeriana*
thymophyllous flower morph



387 *Palicourea valeriana*



388 *Palicourea valeriana*



389 *Palicourea veracruzensis*



390 *Palicourea veracruzensis*

Palicourea (Rubiaceae: Palicoureeae) of Costa Rica

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391 *Palicourea veracruzensis*



392 *Palicourea veracruzensis*



393 *Palicourea vestita*



394 *Palicourea vestita*



395 *Palicourea vestita*



396 *Palicourea vestita*



397 *Palicourea violacea*



398 *Palicourea violacea*



399 *Palicourea violacea*
pin flower morph



400 *Palicourea violacea*
thrum flower morph



401 *Palicourea violacea*



402 *Palicourea winkleri*



403 *Palicourea winkleri*



404 *Palicourea winkleri*
pin flower morph



405 *Palicourea winkleri*

Palicourea (Rubiaceae: Palicoureeae) of Costa Rica

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Table 1. Photo credits. The aim of this guide was to cover all *Palicourea* species known from Costa Rica, and the author took most of the above photos there. Photos of other species, either living or from herbarium specimens, by other photographers have been used to supplement them. The respective copyright information and original sources are given below. The photos are usually cropped and/or rotated to increase clarity and comparability.

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22	<i>Pal. albocaeerulea</i>	Field Museum of Natural History	CC BY-NC 4.0	https://plantidtools.fieldmuseum.org/es/rrc/catalogue/311785
24	<i>Pal. albocaeerulea</i>	Charlotte M. Taylor	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/60011
26	<i>Pal. allenii</i>	Field Museum of Natural History	CC BY-NC 4.0	https://plantidtools.fieldmuseum.org/es/rrc/catalogue/312403
27	<i>Pal. allenii</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/16764
28	<i>Pal. allenii</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100548937
29	<i>Pal. allenii</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100548928
40,42	<i>Pal. aurantiibractea</i>	aribasto	CC BY-NC 4.0	https://www.inaturalist.org/observations/48047309
41	<i>Pal. aurantiibractea</i>	Missouri Botanical Garden Field	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100006112
48	<i>Pal. beachiana</i>	Museum of Natural History Field	CC BY-NC 4.0	https://plantidtools.fieldmuseum.org/en/rrc/catalogue/310313
49	<i>Pal. beachiana</i>	Museum of Natural History Barry	CC BY-NC 4.0	https://plantidtools.fieldmuseum.org/en/rrc/catalogue/310312
50–52	<i>Pal. bellula</i>	Hammel	CC BY-NC-SA 2.0	https://www.flickr.com/photos/68114448@N06/19532931871
75–77	<i>Pal. carnosocarpa</i>	Missouri Botanical Garden Field	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Specimen/1929193
89	<i>Pal. chiriquina</i>	Museum of Natural History	CC BY-NC 4.0	https://collections-botany.fieldmuseum.org/catalogue/311835
90, 91	<i>Pal. chiriquina</i>	Missouri Botanical Garden Peter	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100003763
92	<i>Pal. correae</i>	Zika	CC BY-NC-SA 3.0	https://www.inaturalist.org/photos/111329820
93	<i>Pal. correae</i>	Missouri Botanical Garden Sarab	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100546558
94	<i>Pal. correae</i>	Seth	CC BY-NC 4.0	https://www.inaturalist.org/photos/110854891
95	<i>Pal. correae</i>	far	CC BY-NC 4.0	https://www.inaturalist.org/photos/35077987
98, 99	<i>Pal. crocea</i>	Steve Maldonado Silvestrini	CC BY-NC 4.0	https://www.inaturalist.org/observations/56471822
103	<i>Pal. croceovenosa</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/16426
115	<i>Pal. dichotoma</i>	olivier_fortune	CC BY-NC 4.0	https://www.inaturalist.org/photos/90365983
116	<i>Pal. dichotoma</i>	Sébastien Sant	CC BY-NC 4.0	https://www.inaturalist.org/photos/119568279
117	<i>Pal. dichotoma</i>	olivier_fortune	CC BY-NC 4.0	https://www.inaturalist.org/photos/90364179
130, 131	<i>Pal. eurycarpa</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100132142
132	<i>Pal. eurycarpa</i>	Missouri Botanical Garden Alan	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100132032
138–140	<i>Pal. galeottiana</i>	Rockefeller	CC BY 4.0	https://www.inaturalist.org/observations/27417178
150	<i>Pal. gomezii</i>	Nolan Exe	CC BY 4.0	https://www.inaturalist.org/photos/260015230
156–158	<i>Pal. gomezii</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Specimen/3390825
172	<i>Pal. hammelii</i>	Field Museum of Natural	CC BY-NC 4.0	https://collections-botany.fieldmuseum.org/catalogue/311941
173	<i>Pal. hammelii</i>	History Missouri Botanical	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100003751
199, 201,	<i>Pal. lancifera</i>	Garden vmacphail	CC BY-NC 4.0	https://www.inaturalist.org/observations/27059970
202				
225–227	<i>Pal. matamana</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100003829
250–252	<i>Pal. palustris</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100158506
253	<i>Pal. palustris</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100004430
254, 255	<i>Pal. pauciflora</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100004431
256, 257	<i>Pal. pauciflora</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100004429
				http://legacy.tropicos.org/Image/100004428

Costa Rica

Palicourea (Rubiaceae: Palicoureeae) of Costa Rica

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262–264	<i>Pal. phanerandra</i>	Rodrigo Carral Domínguez	used with permission	https://www.inaturalist.org/observations/203944232
270–273	<i>Pal. providenciana</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Specimen/100351113
279, 280	<i>Pal. psychotrioides</i>	Leonardo Álvarez-Alcázar	CC BY-NC 4.0	https://www.inaturalist.org/observations/117388746
281	<i>Pal. psychotrioides</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/19504
307	<i>Pal. schunkei</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100449730
310–313	<i>Pal. seemannii</i>	Missouri Botanical Garden Saul	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Specimen/1212904
314–316	<i>Pal. simiarum</i>	Miguel Z	CC BY-NC 4.0	https://www.inaturalist.org/observations/94233906
332, 334	<i>Pal. standleyana</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Specimen/3586404
341, 342	<i>Pal. tapantiensis</i>	Field Museum of Natural History	CC BY-NC 4.0	https://collections-botany.fieldmuseum.org/catalogue/313220
343	<i>Pal. tapantiensis</i>	Field Museum of Natural History	CC BY-NC 4.0	https://collections-botany.fieldmuseum.org/catalogue/313219
383	<i>Pal. umbelliformis</i>	STRI	CC0 1.0	https://stricollections.org/portal/collections/individual/index.php?occid=904333
389–391	<i>Pal. veracruzensis</i>	José Rodrigo Carral Domínguez	used with permission	https://www.inaturalist.org/observations/204484765
392	<i>Pal. veracruzensis</i>	Field Museum of Natural History	CC BY-NC 4.0	https://plantidtools.fieldmuseum.org/es/nlp/catalogue/3676725
393	<i>Pal. vestita</i>	Field Museum of Natural History	CC BY-NC 4.0	https://collections-botany.fieldmuseum.org/catalogue/312176
394, 395	<i>Pal. vestita</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100259383
396	<i>Pal. vestita</i>	Missouri Botanical Garden	CC BY-NC-SA 3.0	http://legacy.tropicos.org/Image/100004738