

**AN UPDATED LIST OF PTERIDOPHYTA AND LYCOPHYTA TYPE MATERIAL  
DEPOSITED AT THE  
NATIONAL HERBARIUM OF COSTA RICA (CR)**

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**ABSTRACT**

This study presents information about the type specimens of Pteridophyta and Lycophyta housed at the National Herbarium of Costa Rica (including ex INB). In total, Pteridophyta and Lycophyta type material encompasses 422 species and infraspecific taxa. This represents 257 species and 960 specimens more than the last assessment. 137 holotypes, 239 isotypes (s.l.), 22 syntypes, and 766 paratypes (s.l.) are present. Foreign type material comprises 10% of the collection.

The National Herbarium of Costa Rica (CR) is one of the oldest and largest plant collection in Central America and Mesoamerica, with a history of over 130 years in the documentation and study of the country's flora. These activities have resulted in the herbarium containing 90% of known plant species nationwide. The National Institute of Biodiversity (INBio) transferred its herbarium to CR in 2015, nearly doubling the number of bryophyta, lichens, fungi, and plant specimens. The CR type collection also was greatly enlarged by this addition.

In Costa Rica, two other institutions house plant type specimens. The Herbarium of the Costa Rican University (USJ) houses Pteridophyta and Lycophyta types of approximately 8 species. The emphasis of the Lankester Botanical Garden (JBL) is on the orchid family.

The only previous attempt to list cryptogamic type specimens at CR was by Ruiz-Boyer and González-Ball (2002), who documented 283 type specimens of 165 species and infraspecific taxa. The present report presents an updated list of the type specimens of Pteridophyta and Lycophyta presently housed at CR.

This study is based on the author's specimen-by-specimen examination of the CR and ex INB collection from 2015 to 2018. Each type specimen was examined after checking their labels against original descriptions and/or additional bibliographical material and online databases (specially Tropicos ([www.tropicos.org](http://www.tropicos.org)) and JSTOR ([www.jstor.org](http://www.jstor.org))). An active search for specimens stored as non-type material was also undertaken. After screening and comparison, the status of the type specimen was confirmed, registered in the CR database, and scanned and stored in the type collection. The original CR type specimens information and image can be seen in <http://ecobiosis.museocostarica.go.cr>, and ex INB type specimens can be consulted in <http://www.specify7.museocostarica.go.cr:8080/specify-solr/>. For this paper, nomenclature of genera follows PPG 1 (2016).

**RESULTS**

The fern and lycophyte type collection at CR contains 1239 type specimens, representing 422 species and infraspecific taxa (Table 1). Six main categories of types are represented (Fig. 1). No lectotypes or neotypes exist. The vast majority of the CR type material is from Costa Rica (90%); the rest is mainly from Latin American countries (Fig. 2).

The transfer of the former INB collection added 254 type specimens to CR: 58 holotypes, 27 isotypes, 167 paratypes and 3 phototypes, and 12 new species of cryptogams to the type collection. But it also increased the different type categories for a single species: 20 species are now represented by both a holotype and an isotype and 37 species by a holotype, an isotype, and paratypes. Previously there were just 16 cases in CR.

Principal authors of the type species represented in CR are Konrad H. Christ and A. Rojas, who together have described the 48% of the species. Christ was a Swiss botanist who specialized in pteridology (Gómez 1977) — he is the main author of the fern species of Costa Rica of the late and early Twentieth Century. Alexander Rojas (A. Rojas) is a Costa Rican pteridologist who has published many taxonomic studies of the country's ferns and lycophytes since the 1990s.

An interesting finding is that in the description of 24 new taxa, 13 specimens were used repeatedly (Table 2).

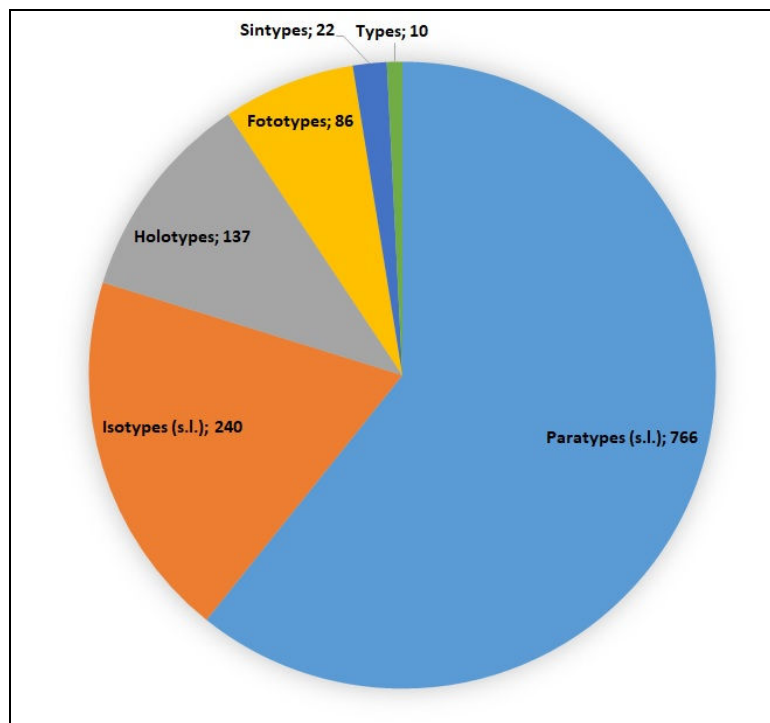


Figure 1. Number of specimens in each type category.

Table 1. List of fern and lycophyte type specimens deposited at the National Herbarium of Costa Rica (CR). Abbreviations are: H= Holotype, I= Isotype, L= Lectotype, IL= Isolectotype, LP= Lectoparatype, S= Syntype, IS= Isosyntype, P= Paratype, T= Type, F= Phototype. Species included in Ruiz-Boyer and González-Ball (2002) are marked with \*.

Family	Original name	Origin	Type
Pteridaceae	<i>Acrostichum acutum</i> Fée	Brasil	F
Dryopteridaceae	<i>Acrostichum bernoullii</i> Kuhn ex Christ	Guatemala	P
Dryopteridaceae	<i>Acrostichum conforme</i> var. <i>alpinum</i> J. Boomer ex Christ	Costa Rica	IL
Dryopteridaceae	<i>Acrostichum foeniculaceum</i> Hook. & Grev.	Ecuador	F
Dryopteridaceae	<i>Acrostichum lloense</i> Hook.	Ecuador	F

Dryopteridaceae	<i>Acrostichum moorei</i> E. Britton	Bolivia	F
Pteridaceae	<i>Acrostichum omphalodes</i> Fée	Brasil	F
Dryopteridaceae	<i>Acrostichum peltatum</i> var. <i>potentillifolium</i> Christ *	Costa Rica	H, I
Lomariopsidaceae	<i>Acrostichum pittieri</i> Christ	Costa Rica	IL, LP
Dryopteridaceae	<i>Acrostichum tripartitum</i> Hook. & Grev.	Ecuador	F
Pteridaceae	<i>Adiantum acrolobum</i> A. Rojas	Costa Rica	H
Pteridaceae	<i>Adiantum caribense</i> A. Rojas	Costa Rica	H
Pteridaceae	<i>Adiantum subtrapezoideum</i> Christ *	Costa Rica	I
Pteridaceae	<i>Adiantum tetraphyllum</i> var. <i>costaricense</i> Christ	Costa Rica	I
Pteridaceae	<i>Adiantum</i> × <i>janzenianum</i> A. Rojas & C. Herrera	Costa Rica	H, I, P
Cyatheaceae	<i>Alsophila acutidens</i> Christ	Costa Rica	S
Cyatheaceae	<i>Alsophila decussata</i> Christ *	Costa Rica	I
Cyatheaceae	<i>Alsophila furcata</i> Christ *	Costa Rica	I
Cyatheaceae	<i>Alsophila ichtyolepis</i> Christ *	Costa Rica	IL
Cyatheaceae	<i>Alsophila leucolepis</i> var. <i>pubescens</i> Christ *	Costa Rica	IS
Cyatheaceae	<i>Alsophila nesiotica</i> Maxon	Costa Rica	I
Cyatheaceae	<i>Alsophila notabilis</i> Maxon	Costa Rica	P
Cyatheaceae	<i>Alsophila pinnula</i> Christ *	Costa Rica	I
Cyatheaceae	<i>Alsophila polystichoides</i> Christ *	Costa Rica	I
Cyatheaceae	<i>Alsophila subaspera</i> Christ *	Costa Rica	IL, LP
Cyatheaceae	<i>Alsophila tenerifrons</i> Christ	Costa Rica	IL
Cyatheaceae	<i>Alsophila trichiata</i> Maxon	Panamá	P
Anemiaceae	<i>Anemia</i> × <i>didicusana</i> L.D. Gómez	Costa Rica	H
Thelypteridaceae	<i>Aspidium biolleyi</i> Christ *	Costa Rica	I
Dryopteridaceae	<i>Aspidium bullatum</i> Christ *	Costa Rica	I
Tectariaceae	<i>Aspidium caudatum</i> var. <i>contractum</i> Christ *	Costa Rica	IL
Tectariaceae	<i>Aspidium cicutarium</i> var. <i>angustius</i> Christ *	Costa Rica	I
Dryopteridaceae	<i>Aspidium effusum</i> var. <i>muticum</i> Christ *	Costa Rica	I
Tectariaceae	<i>Aspidium eurylobum</i> Christ *	Costa Rica	IL, LP
Dryopteridaceae	<i>Aspidium karstenianum</i> var. <i>navarrense</i> Christ *	Costa Rica	I
Tectariaceae	<i>Aspidium macrophyllum</i> var. <i>biolleyanum</i> Christ *	Costa Rica	I
Tectariaceae	<i>Aspidium macrophyllum</i> var. <i>pittieri</i> Christ *	Costa Rica	IS
Tectariaceae	<i>Aspidium myriosorum</i> Christ	Costa Rica	IS
Tectariaceae	<i>Aspidium subebeneum</i> Christ *	Costa Rica	I
Dryopteridaceae	<i>Aspidium tonduzii</i> Christ	Costa Rica	I

Dryopteridaceae	<i>Aspidium trejoi</i> Christ	Costa Rica	S
Aspleniaceae	<i>Asplenium alfredii</i> Rosenst.	Costa Rica	I
Aspleniaceae	<i>Asplenium auriculatum</i> var. <i>aequilaterale</i> Christ	Costa Rica	IL
Aspleniaceae	<i>Asplenium barclayanum</i> C.D. Adams	Costa Rica	P
Aspleniaceae	<i>Asplenium cuspidatum</i> var. <i>triculum</i> Lellinger *	Costa Rica	I, F
Aspleniaceae	<i>Asplenium dareoides</i> Desv.	South América	F
Aspleniaceae	<i>Asplenium delicatulum</i> var. <i>cocosense</i> A. Rojas & Trusty	Costa Rica	H, P
Aspleniaceae	<i>Asplenium excelsum</i> Lellinger *	Panamá	P, F
Aspleniaceae	<i>Asplenium gomezianum</i> Lellinger *	Costa Rica	P, F
Aspleniaceae	<i>Asplenium induratum</i> Hook. *	Costa Rica	IL, LP
Aspleniaceae	<i>Asplenium maxonii</i> Lellinger *	Panamá	P, F
Aspleniaceae	<i>Asplenium onustum</i> Christ	Costa Rica	I
Aspleniaceae	<i>Asplenium radicans</i> var. <i>costaricense</i> Christ	Costa Rica	I
Aspleniaceae	<i>Asplenium sodiroi</i> Christ	Costa Rica	P
Aspleniaceae	<i>Asplenium trichomanes</i> var. <i>viridissimum</i> Christ *	Costa Rica	T
Athyriaceae	<i>Athyrium commixtum</i> Koidz.	China?	F
Athyriaceae	<i>Athyrium reductum</i> Christ	Costa Rica	IL
Dicksoniaceae	<i>Balantium blumei</i> Kunze	Java	F
Blechnaceae	<i>Blechnum flaccisquama</i> A. Rojas *	Costa Rica	H, I, P
Blechnaceae	<i>Blechnum fuscusquamosum</i> A. Rojas	Costa Rica	H, I, P
Blechnaceae	<i>Blechnum lellingerianum</i> L.D. Gómez	Costa Rica	H, I, P
Blechnaceae	<i>Blechnum microlomaria</i> L.D. Gómez *	Costa Rica	H, I
Blechnaceae	<i>Blechnum moranianum</i> A. Rojas	Costa Rica	H, P
Ophioglossaceae	<i>Botrychium ternatum</i> var. <i>daedaleum</i> Christ *	Costa Rica	I
Polypodiaceae	<i>Campyloneurum gracile</i> A. Rojas	Costa Rica	H, P
Polypodiaceae	<i>Campyloneurum irregulare</i> Lellinger *	Ecuador	P
Polypodiaceae	<i>Campyloneurum leoniae</i> A. Rojas	Costa Rica	H
Polypodiaceae	<i>Ceradenia tristis</i> A.R. Sm.	Costa Rica	I, P
Polypodiaceae	<i>Ceradenia aulaeifolia</i> L. E. Bishop ex A.R. Sm.	Costa Rica	I, P
Polypodiaceae	<i>Ceradenia phloiocharis</i> L. E. Bishop *	Panamá	P
Pteridaceae	<i>Cheilanthes glandulifera</i> Liebm.	México	F
Pteridaceae	<i>Cheilanthes paleacea</i> M. Martens & Galeotti	México	F
Cyatheaceae	<i>Chnoophora glauca</i> Blume	Java	F
Cyatheaceae	<i>Cnemidaria chocoensis</i> Stolze *	Colombia	I, P

Dryopteridaceae	<i>Ctenitis bidecorata</i> Lellinger *	Costa Rica	P, F
Dryopteridaceae	<i>Ctenitis costaricensis</i> R.C. Moran *	Costa Rica	H, I
Dryopteridaceae	<i>Ctenitis gomezii</i> R. C. Moran	Costa Rica	H
Dryopteridaceae	<i>Ctenitis skutchii</i> Lellinger *	Costa Rica	P, F
Dryopteridaceae	<i>Ctenitis sotoana</i> A. Rojas	Costa Rica	H, P
Cyatheaceae	<i>Cyathea albomarginata</i> R.C. Moran *	Costa Rica	I, P
Cyatheaceae	<i>Cyathea alfonsoana</i> L.D. Gómez *	Costa Rica	H, I, P
Cyatheaceae	<i>Cyathea aphlebioides</i> Christ *	Costa Rica	I
Cyatheaceae	<i>Cyathea arida</i> Christ *	Costa Rica	IS
Cyatheaceae	<i>Cyathea aureonitens</i> Christ *	Costa Rica	IL
Cyatheaceae	<i>Cyathea cervantesiana</i> A. Rojas	Costa Rica	H
Cyatheaceae	<i>Cyathea javanica</i> Blume	Java	F
Cyatheaceae	<i>Cyathea mucilagina</i> R.C. Moran *	Costa Rica	I, P
Cyatheaceae	<i>Cyathea povedae</i> A. Rojas	Costa Rica	H, P
Cyatheaceae	<i>Cyathea punctifera</i> Christ *	Costa Rica	I
Cyatheaceae	<i>Cyathea werckleana</i> Christ	Costa Rica	IL
Cyatheaceae	<i>Cyathea</i> × <i>holdridgeana</i> Nisman & L.D. Gómez *	Costa Rica	H
Cyatheaceae	<i>Cyathea</i> × <i>moralesiana</i> A. Rojas	Costa Rica	H
Cyatheaceae	<i>Cyathea</i> × <i>smithiana</i> A. Rojas	Costa Rica	H, P
Marattiaceae	<i>Danaea tuomistoana</i> A. Rojas	Costa Rica	H, I
Dennstaedtiaceae	<i>Dennstaedtia gracilis</i> A. Rojas & Tejero	México	I, P
Dennstaedtiaceae	<i>Dennstaedtia grandifrons</i> Christ	Costa Rica	T
Dennstaedtiaceae	<i>Dennstaedtia obtusifolia</i> var. <i>protrusa</i> Christ *	Costa Rica	I
Dennstaedtiaceae	<i>Dennstaedtia spinosa</i> Mickel	Costa Rica	I
Dicksoniaceae	<i>Dicksonia decomposita</i> Christ	Costa Rica	S
Dicksoniaceae	<i>Dicksonia lobulata</i> Christ *	Costa Rica	I
Dicksoniaceae	<i>Dicksonia obtusifolia</i> var. <i>protrusa</i> Christ	Costa Rica	I
Pteridaceae	<i>Didymochlaena lunulata</i> var. <i>microphylla</i> J. Bommer ex Christ *	Costa Rica	I
Athyriaceae	<i>Diplazium arayae</i> A. Rojas	Costa Rica	H
Athyriaceae	<i>Diplazium ingens</i> Christ	Costa Rica	IL, LP
Athyriaceae	<i>Diplazium matamense</i> A. Rojas *	Costa Rica	H, I
Athyriaceae	<i>Diplazium multigemmatum</i> Lellinger *	Costa Rica	P, F
Athyriaceae	<i>Diplazium navarrense</i> Lellinger *	Costa Rica	F
Athyriaceae	<i>Diplazium obscurum</i> Christ	Costa Rica	LP
Athyriaceae	<i>Diplazium pactile</i> Lellinger *	Ecuador	F
Athyriaceae	<i>Diplazium sanctae-rosae</i> Christ *	Costa Rica	IL
Athyriaceae	<i>Diplazium skutchii</i> Lellinger *	Costa Rica	P, F

Athyriaceae	<i>Diplazium striatastrum</i> Lellinger *	Costa Rica	P, F
Athyriaceae	<i>Diplazium subsilvaticum</i> Christ	Costa Rica	IL, LP
Athyriaceae	<i>Diplazium urticifolium</i> Christ *	Costa Rica	I
Athyriaceae	<i>Diplazium urticifolium</i> var. <i>mesoamericanum</i> A. Rojas	México	H
Dryopteridaceae	<i>Dryopteris atrovirens</i> C. Chr.	Costa Rica	S
Dryopteridaceae	<i>Dryopteris boqueronensis</i> Hieron.	Colombia	F
Dryopteridaceae	<i>Dryopteris curta</i> Christ	Costa Rica	IL
Dryopteridaceae	<i>Dryopteris engelii</i> Hieron.	Venezuela	F
Dryopteridaceae	<i>Dryopteris ensiformis</i> C. Chr. *	Costa Rica	I
Dryopteridaceae	<i>Dryopteris flaccisquama</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Dryopteris lepidula</i> Hieron.	Colombia	F
Dryopteridaceae	<i>Dryopteris limonensis</i> Christ	Costa Rica	I
Dryopteridaceae	<i>Dryopteris lingulata</i> C. Chr.	Costa Rica	I
Dryopteridaceae	<i>Dryopteris mexiae</i> Copel. ex C. Chr.	Brasil	T
Dryopteridaceae	<i>Dryopteris millei</i> C. Chr.	Ecuador	F
Dryopteridaceae	<i>Dryopteris muzensis</i> Hieron.	Colombia	F
Dryopteridaceae	<i>Dryopteris santae-catharinae</i> Rosenst.	Brasil	F
Dryopteridaceae	<i>Dryopteris strigifera</i> Hieron.	Colombia	F
Dryopteridaceae	<i>Dryopteris subattenuata</i> Rosenst.	New Guinea	F
Dryopteridaceae	<i>Dryopteris tetragona</i> var. <i>costaricensis</i> Rosenst.	Costa Rica	S
Dryopteridaceae	<i>Dryopteris vattuonei</i> Hicken	Argentina	F
Dryopteridaceae	<i>Elaphoglossum adrianae</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum alvaradoanum</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum auripilum</i> var. <i>longipilosum</i> L. Atehortúa	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum baquianorum</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum barbae</i> Rosenst.	Costa Rica	T
Dryopteridaceae	<i>Elaphoglossum barnebyanum</i> A. Rojas *	Costa Rica	H, I
Dryopteridaceae	<i>Elaphoglossum bittneri</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum bradeorum</i> Christ	Costa Rica	I
Dryopteridaceae	<i>Elaphoglossum brenesii</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum caricifolium</i> Mickel	Panamá	P
Dryopteridaceae	<i>Elaphoglossum caridadiae</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum caroliae</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum cedralense</i> A. Rojas	Costa Rica	H
Dryopteridaceae	<i>Elaphoglossum christianeae</i> Mickel	Panamá	P

Dryopteridaceae	<i>Elaphoglossum ciliatosquamum</i> A. Rojas *	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum cocosense</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum cordigerum</i> Christ	Costa Rica	IL
Dryopteridaceae	<i>Elaphoglossum coriifolium</i> Mickel	Panamá	P
Dryopteridaceae	<i>Elaphoglossum correae</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum costaricense</i> Christ	Costa Rica	S
Dryopteridaceae	<i>Elaphoglossum coto-brusense</i> A. Rojas *	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum cotoi</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum davidsei</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum delgadilloanum</i> A. Rojas	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum doanense</i> L.D. Gómez *	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum ellipticifolium</i> A. Rojas	El Salvador	P
Dryopteridaceae	<i>Elaphoglossum eludens</i> L.D. Gómez *	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum fournierianum</i> L.D. Gómez	Costa Rica	P, F
Dryopteridaceae	<i>Elaphoglossum fuliginosum</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum gamboanum</i> A. Rojas *	Costa Rica	H, I
Dryopteridaceae	<i>Elaphoglossum gerardianum</i> L.D. Gómez	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum gloeorrhizum</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum gomezianum</i> A. Rojas	Panamá	I, P, F
Dryopteridaceae	<i>Elaphoglossum grayumii</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum hammelianum</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum herrerae</i> A. Rojas *	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum heterochroum</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum hyalinum</i> Christ *	Costa Rica	I
Dryopteridaceae	<i>Elaphoglossum incognitum</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum jinoteganum</i> A. Rojas	Nicaragua	H
Dryopteridaceae	<i>Elaphoglossum killipii</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum lalitae</i> L.D. Gómez *	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum lanceiforme</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum lankesteri</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum lenticulatum</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum leporinum</i> L.D. Gómez *	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum longistipitatum</i> A. Rojas *	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum luteum</i> A. Rojas *	Costa Rica	H, I, P

Dryopteridaceae	<i>Elaphoglossum macrostandleyi</i> A. Rojas *	Costa Rica	I, P
Dryopteridaceae	<i>Elaphoglossum maritzae</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum mickelianum</i> A. Rojas *	Costa Rica	I, P
Dryopteridaceae	<i>Elaphoglossum micropogon</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum minutissimum</i> R.C. Moran & Mickel	Costa Rica	I
Dryopteridaceae	<i>Elaphoglossum mitorrhizum</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum moralesii</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum moranii</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum nanum</i> A. Rojas	Costa Rica	H, I
Dryopteridaceae	<i>Elaphoglossum nicaraguense</i> A. Rojas	Nicaragua	I
Dryopteridaceae	<i>Elaphoglossum nigrosquama</i> A. Rojas	Costa Rica	H
Dryopteridaceae	<i>Elaphoglossum ometepense</i> L.D. Gómez	Nicaragua	I, P
Dryopteridaceae	<i>Elaphoglossum orosiense</i> A. Rojas *	Costa Rica	I, P
Dryopteridaceae	<i>Elaphoglossum pacificum</i> A. Rojas	Costa Rica	H, I.
Dryopteridaceae	<i>Elaphoglossum pallidiforme</i> Mickel	Panamá	P
Dryopteridaceae	<i>Elaphoglossum pallidosquamum</i> A. Rojas & P.E. Muñoz	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum pendulum</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum pseudoerinaceum</i> A. Rojas	Panamá	P
Dryopteridaceae	<i>Elaphoglossum reductum</i> A. Rojas	Costa Rica	I
Dryopteridaceae	<i>Elaphoglossum reptans</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum resinosum</i> A. Rojas	Costa Rica	H
Dryopteridaceae	<i>Elaphoglossum silencioanum</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum squamiferum</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum squamocostatum</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum standleyi</i> Mickel	Costa Rica	P
Dryopteridaceae	<i>Elaphoglossum talamancanum</i> A. Rojas *	Costa Rica	H, P, F
Dryopteridaceae	<i>Elaphoglossum tarbacense</i> A. Rojas	Costa Rica	H
Dryopteridaceae	<i>Elaphoglossum taylorianum</i> L.D. Gómez	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum terrestre</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Elaphoglossum valerianum</i> L.D. Gómez *	Costa Rica	H, P
Dryopteridaceae	<i>Elaphoglossum variable</i> A. Rojas	Costa Rica	H, P
Polypodiaceae	<i>Enterosora amplifolia</i> A. Rojas	Costa Rica	H, I
Polypodiaceae	<i>Enterosora lobulata</i> A. Rojas	Costa Rica	H, I
Pteridaceae	<i>Eriosonia x rollalicianana</i> L.D. Gómez	Costa Rica	H, I
Pteridaceae	<i>Gaga germanotta</i> F.W. Li & Windham	Costa Rica	P



Gleicheniaceae	<i>Gleichenia brevipubis</i> Christ *	Costa Rica	IL
Gleicheniaceae	<i>Gleichenia nitidula</i> Rosenst.	Costa Rica	I
Gleicheniaceae	<i>Gleichenia pectinata</i> var. <i>sublinearis</i> Christ	Costa Rica	IS
Gleicheniaceae	<i>Gleichenia strictissima</i> Christ *	Costa Rica	I
Polypodiaceae	<i>Grammitis barbensis</i> Lellinger *	Costa Rica	I
Polypodiaceae	<i>Grammitis cornuta</i> Lellinger *	Costa Rica	F
Polypodiaceae	<i>Grammitis micula</i> Lellinger *	Panamá	I, F
Polypodiaceae	<i>Grammitis pseudomitchellae</i> Lellinger *	Costa Rica	F
Pteridaceae	<i>Gymnogramma chaerophylla</i> var. <i>cryptogrammoides</i> J. Bommer ex Christ *	Costa Rica	I
Pteridaceae	<i>Gymnogramma congesta</i> Christ *	Costa Rica	IL
Pteridaceae	<i>Gymnogramma haematodes</i> Christ *	Costa Rica	S, IS
Pteridaceae	<i>Gymnogramma kupperi</i> I. Losch	Costa Rica	F
Pteridaceae	<i>Gymnogramma mayoris</i> Rosenst.	Colombia	F
Cyatheaceae	<i>Hemitelia choricarpa</i> Maxon	Costa Rica	I
Cyatheaceae	<i>Hemitelia mutica</i> Christ *	Costa Rica	IL
Cyatheaceae	<i>Hemitelia pittieri</i> Maxon	Costa Rica	I
Cyatheaceae	<i>Hemitelia rudis</i> Maxon	Panamá	I
Cyatheaceae	<i>Hemitelia subglabra</i> Underw. ex Maxon	Costa Rica	S
Cyatheaceae	<i>Hemitelia suprastrigosa</i> Christ *	Costa Rica	I
Lycopodiaceae	<i>Huperzia oellgaardii</i> A. Rojas	Costa Rica	H, P
Cyatheaceae	<i>Hymenophyllopsis hymenophylloides</i> L.D. Gómez	Guyana	P
Hymenophyllaceae	<i>Hymenophyllum adiantoides</i> Bosch.	Perú	F
Hymenophyllaceae	<i>Hymenophyllum caulopteron</i> Fée	Brasil	F
Hymenophyllaceae	<i>Hymenophyllum cocosense</i> A. Rojas *	Costa Rica	H, I, P
Hymenophyllaceae	<i>Hymenophyllum crassipetiolatum</i> Stolze *	Guatemala	F
Hymenophyllaceae	<i>Hymenophyllum densipilosum</i> A. Rojas	Costa Rica	H, P
Hymenophyllaceae	<i>Hymenophyllum dimorphum</i> Christ *	Costa Rica	I
Hymenophyllaceae	<i>Hymenophyllum durandii</i> Christ *	Costa Rica	I
Hymenophyllaceae	<i>Hymenophyllum fucoides</i> var. <i>integrum</i> Kuhn	Costa Rica	S
Hymenophyllaceae	<i>Hymenophyllum hemipteron</i> Rosenst.	Costa Rica	F
Hymenophyllaceae	<i>Hymenophyllum intercalatum</i> Christ *	Costa Rica	I
Hymenophyllaceae	<i>Hymenophyllum mortonianum</i> Lellinger *	Colombia	I, F
Hymenophyllaceae	<i>Hymenophyllum multicristatum</i> A. Rojas	Costa Rica	H, P
Hymenophyllaceae	<i>Hymenophyllum pycnocarpum</i> Lellinger	Java	F
Hymenophyllaceae	<i>Hymenophyllum saenzianum</i> L.D. Gómez	Costa Rica	I
Hymenophyllaceae	<i>Hymenophyllum semiglabrum</i> Rosenst.	Costa Rica	F
Hymenophyllaceae	<i>Hymenophyllum siliquosum</i> Christ *	Costa Rica	IL
Hymenophyllaceae	<i>Hymenophyllum talamancanum</i> A. Rojas	Costa Rica	H, I

Dennstaedtiaceae	<i>Hypolepis grandis</i> Lellinger *	Costa Rica	F
Dennstaedtiaceae	<i>Hypolepis lellingeri</i> A. Rojas	Costa Rica	H, I, P
Dennstaedtiaceae	<i>Hypolepis moraniana</i> A. Rojas	Costa Rica	H, P
Dennstaedtiaceae	<i>Hypolepis repens</i> var. <i>colorata</i> Christ	Costa Rica	S
Isoetaceae	<i>Isoetes cleefii</i> H.P. Fuchs	Colombia	I
Isoetaceae	<i>Isoetes echinospora</i> Durieu	France	H
Isoetaceae	<i>Isoetes panamensis</i> Maxon & Morton *	Panamá	I
Isoetaceae	<i>Isoetes savannarum</i> L.D. Gómez *	Costa Rica	H, I
Isoetaceae	<i>Isoetes savatieri</i> Franch.	France	T
Isoetaceae	<i>Isoetes tryoniana</i> L.D. Gómez	Costa Rica	I
Pteridaceae	<i>Jamesonia hispidula</i> Kunze	Venezuela	F
Pteridaceae	<i>Jamesonia scammaniae</i> A.F. Tryon	Costa Rica	P
Polypodiaceae	<i>Lellingeria brenesii</i> A. Rojas	Costa Rica	H, P
Polypodiaceae	<i>Lellingeria guanacastensis</i> A. Rojas	Costa Rica	H, I, P
Polypodiaceae	<i>Lellingeria pinnata</i> A. Rojas	Costa Rica	H, I, P
Lindsaeaceae	<i>Lindsaea angustipinna</i> A. Rojas & Tejero	Costa Rica	H, P
Lindsaeaceae	<i>Lindsaea fuscopetiolata</i> A. Rojas & Tejero	Costa Rica	H, P
Lindsaeaceae	<i>Lindsaea mesoamericana</i> A. Rojas & Tejero	México	P
Blechnaceae	<i>Lomaria sessilifolia</i> Klotzsch ex Christ	Costa Rica	S
Lomariopsidaceae	<i>Lomariopsis</i> × <i>farrarii</i> R.C. Moran & J.E. Watkins	Costa Rica	H, I
Dennstaedtiaceae	<i>Lonchitis lindeniana</i> Hook.	Venezuela	F
Dicksoniaceae	<i>Lophosoria quesadae</i> A. Rojas *	Costa Rica	H, I, P
Lycopodiaceae	<i>Lycopodium cernuum</i> fo. <i>macrostachyum</i> Christ *	Costa Rica	I
Lycopodiaceae	<i>Lycopodium clavatum</i> var. <i>pseudocontiguum</i> Christ *	Costa Rica	I
Lycopodiaceae	<i>Lycopodium cuneifolium</i> Hieron.	Costa Rica	F
Lycopodiaceae	<i>Lycopodium hippurideum</i> Christ *	Costa Rica	I
Lycopodiaceae	<i>Lycopodium pensum</i> Lellinger & Mickel *	Costa Rica	P, F
Lycopodiaceae	<i>Lycopodium pithyoides</i> Schltldl. & Cham.	México	F
Lycopodiaceae	<i>Lycopodium reflexum</i> var. <i>brevissimum</i> Christ *	Costa Rica	I
Lycopodiaceae	<i>Lycopodium tubulosum</i> Maxon	Costa Rica	P
Lycopodiaceae	<i>Lycopodium underwoodianum</i> Maxon *	Costa Rica	I
Lygodiaceae	<i>Lygodium</i> × <i>lancetillanum</i> L.D. Gómez	Honduras	H
Dryopteridaceae	<i>Megalastrum apicale</i> R.C. Moran & J. Prado	Costa Rica	P
Dryopteridaceae	<i>Megalastrum costipubens</i> R.C. Moran & J. Prado	Costa Rica	H, P

Dryopteridaceae	<i>Megalastrum ctenitoides</i> A. Rojas	Costa Rica	H, I
Dryopteridaceae	<i>Megalastrum dentatum</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Megalastrum glabrum</i> R.C. Moran & J. Prado	Costa Rica	P
Dryopteridaceae	<i>Megalastrum intermedium</i> R.C. Moran & J. Prado	Costa Rica	H, P
Dryopteridaceae	<i>Megalastrum longiglandulosum</i> R.C. Moran & J. Prado	Costa Rica	I
Dryopteridaceae	<i>Megalastrum longipilosum</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Megalastrum longipilosum</i> var. <i>glabrescens</i> A. Rojas	Costa Rica	H, I, P
Dryopteridaceae	<i>Megalastrum longipilosum</i> var. <i>glandulosum</i> A. Rojas	Costa Rica	H, P
Dryopteridaceae	<i>Megalastrum squamosum</i> A. Rojas *	Costa Rica	H, I, P
Polypodiaceae	<i>Melpomene alan-smithii</i> A. Rojas	Costa Rica	H, I, P
Polypodiaceae	<i>Melpomene personata</i> Lehnert	Bolivia	P
Polypodiaceae	<i>Microgramma</i> × <i>moraviana</i> L.D. Gómez *	Costa Rica	H
Dryopteridaceae	<i>Microstaphyla columbiana</i> Maxon	Colombia	I
Marattiaceae	<i>Myriotheca sorbifolia</i> Bory	África	F
Nephrolepidaceae	<i>Nephrolepis obtusiloba</i> A. Rojas	Costa Rica	I
Polypodiaceae	<i>Niphidium oblanceolatum</i> A. Rojas	Costa Rica	I, P
Oleandraceae	<i>Oleandra costaricensis</i> Maxon *	Costa Rica	I, S
Oleandraceae	<i>Oleandra decurrens</i> Maxon *	Costa Rica	I
Oleandraceae	<i>Oleandra zapatana</i> Lellinger *	Colombia	F
Ophioglossaceae	<i>Ophioglossum petiolatum</i> Hook.	Antilles	F
Dryopteridaceae	<i>Osmunda peltata</i> Sw.	Jamaica	F
Dryopteridaceae	<i>Peltapteris peruviana</i> L.D. Gómez	Perú	T, F
Dryopteridaceae	<i>Phegopteris subdryopteris</i> Christ *	Costa Rica	I
Lycopodiaceae	<i>Phlegmariurus gracilis</i> A. Rojas & R. Calderón	Costa Rica	H, P
Lycopodiaceae	<i>Phlegmariurus nanus</i> A. Rojas & R. Calderón	Costa Rica	P
Pteridaceae	<i>Pityrogramma dukei</i> Lellinger *	Colombia	F
Plagiogyriaceae	<i>Plagiogyria anisodonta</i> Copel. *	Costa Rica	I
Polypodiaceae	<i>Pleurogramme gyroflexa</i> Christ *	Costa Rica	I
Dryopteridaceae	<i>Polybotrya acuminata</i> var. <i>villosa</i> Christ	Costa Rica	T
Dryopteridaceae	<i>Polybotrya aucuparia</i> Christ	Costa Rica	F
Dryopteridaceae	<i>Polybotrya bipinnata</i> A. Rojas	Costa Rica	P
Dryopteridaceae	<i>Polybotrya gomezii</i> R.C. Moran *	Costa Rica	H
Dryopteridaceae	<i>Polybotrya lourteigiana</i> Lellinger *	Colombia	F
Dryopteridaceae	<i>Polybotrya pittieri</i> Lellinger *	Colombia	F
Dryopteridaceae	<i>Polybotrya villosula</i> Christ *	Costa Rica	T

Polypodiaceae	<i>Polypodium alsophilicola</i> Christ	Costa Rica	I
Polypodiaceae	<i>Polypodium blepharodes</i> Maxon	Costa Rica	P
Dryopteridaceae	<i>Polypodium cyclocolpon</i> Christ *	Costa Rica	I
Polypodiaceae	<i>Polypodium enterosoroides</i> Christ *	Costa Rica	I
Polypodiaceae	<i>Polypodium extensum</i> G. Forst	Australia	F
Polypodiaceae	<i>Polypodium flagellare</i> Christ *	Costa Rica	I
Polypodiaceae	<i>Polypodium fraxinifolium</i> subsp. <i>articulatum</i> Christ *	Costa Rica	IL
Polypodiaceae	<i>Polypodium furfuraceum</i> fo. <i>pinnatisectum</i> Brade	Costa Rica	T
Polypodiaceae	<i>Polypodium hyalinum</i> Maxon *	Costa Rica	I
Polypodiaceae	<i>Polypodium lanceolatum</i> var. <i>complanatum</i> Weath. *	Costa Rica	I, P
Polypodiaceae	<i>Polypodium limulum</i> Christ *	Costa Rica	IL, LP
Polypodiaceae	<i>Polypodium loriceum</i> var. <i>oligoneurum</i> Christ	Costa Rica	I
Polypodiaceae	<i>Polypodium moniliforme</i> var. <i>minus</i> Christ *	Costa Rica	IS
Polypodiaceae	<i>Polypodium montigenum</i> Maxon	Costa Rica	P
Polypodiaceae	<i>Polypodium myriolepis</i> Christ *	Costa Rica	I
Polypodiaceae	<i>Polypodium pectinatum</i> var. <i>hispidum</i> Christ *	Costa Rica	IL
Polypodiaceae	<i>Polypodium percussum</i> var. <i>squamosum</i> Christ	Costa Rica	I
Polypodiaceae	<i>Polypodium pittieri</i> Christ *	Costa Rica	I
Polypodiaceae	<i>Polypodium plebeium</i> var. <i>palmense</i> Christ	Costa Rica	S
Polypodiaceae	<i>Polypodium plectolepidioides</i> Rosenst. *	Costa Rica	I
Polypodiaceae	<i>Polypodium plesiosorum</i> var. <i>rubicundum</i> Tejero	Costa Rica	I
Polypodiaceae	<i>Polypodium polypodioides</i> var. <i>aciculare</i> Weath. *	Costa Rica	I
Polypodiaceae	<i>Polypodium rodriguezianum</i> L.D. Gómez *	Costa Rica	I
Grammitidaceae	<i>Polypodium sericeolanatum</i> Hook.	Ecuador	F
Polypodiaceae	<i>Polypodium subviride</i> Lellinger *	Panamá	F
Polypodiaceae	<i>Polypodium tablazianum</i> Rosenst.	Costa Rica	IL
Polypodiaceae	<i>Polypodium tico</i> A. Rojas *	Costa Rica	H, I, P
Grammitidaceae	<i>Polypodium turrialbae</i> Christ *	Costa Rica	IL
Dryopteridaceae	<i>Polystichum talamancaum</i> Barrington	Costa Rica	I, P
Pteridaceae	<i>Psilogramme glaberrima</i> Maxon *	Costa Rica	I
Pteridaceae	<i>Psilogramme jimenezii</i> Maxon *	Costa Rica	I
Pteridaceae	<i>Psilogramme villosula</i> Maxon *	Costa Rica	I
Pteridaceae	<i>Pteris herrerae</i> A. Rojas & M. Palacios	Costa Rica	H
Pteridaceae	<i>Pteris lactua</i> Poir.	Guadalupe	F
Pteridaceae	<i>Pteris longicauda</i> Christ *	Costa Rica	I

Pteridaceae	<i>Pteris longipetiolulata</i> Lellinger *	Colombia	I, F
Pteridaceae	<i>Pteris mollis</i> Christ *	Costa Rica	I
Pteridaceae	<i>Pteris quadriaurita</i> var. <i>asperula</i> Christ *	Costa Rica	I
Pteridaceae	<i>Pteris quadriaurita</i> var. <i>curtidens</i> Christ *	Costa Rica	I
Dryopteridaceae	<i>Rhipidopteris standleyi</i> Maxon	Costa Rica	T
Saccolomataceae	<i>Saccoloma elegans</i> var. <i>spinsum</i> A. Rojas & Trusty	Costa Rica	H, I, P
Saccolomataceae	<i>Saccoloma moranii</i> A. Rojas *	Costa Rica	H, I, P
Blechnaceae	<i>Salpichlaena thalassica</i> Grayum & R.C. Moran *	Costa Rica	I, P
Selaginellaceae	<i>Selaginella costaricensis</i> Hieron	Costa Rica	S
Selaginellaceae	<i>Selaginella estrellensis</i> Hieron.	Costa Rica	P
Selaginellaceae	<i>Selaginella hoffmannii</i> Hieron.	Costa Rica	F
Selaginellaceae	<i>Selaginella osaensis</i> A. Rojas	Costa Rica	H, I, P
Selaginellaceae	<i>Selaginella tuberosa</i> McAlpin & Lellinger *	Costa Rica	I
Blechnaceae	<i>Stenochlaena kunzeana</i> Underw.	Cuba	F
Dryopteridaceae	<i>Stigmatopteris killipiana</i> Lellinger *	Colombia	F
Isoetaceae	<i>Stylites andicola</i> Amstutz	Perú	T
Tectariaceae	<i>Tectaria acerifolia</i> R.C. Moran	Panamá	P
Tectariaceae	<i>Tectaria faberiana</i> A. Rojas	Costa Rica	H, P
Tectariaceae	<i>Tectaria neotropica</i> L.D. Gómez *	Panamá	H, P
Tectariaceae	<i>Tectaria</i> × <i>chaconiana</i> A. Rojas	Costa Rica	H, I, P
Polypodiaceae	<i>Terpsichore acrosora</i> A. Rojas	Costa Rica	H, I
Polypodiaceae	<i>Terpsichore cocosensis</i> A. Rojas *	Costa Rica	H, I, P
Polypodiaceae	<i>Terpsichore esquiveliana</i> A. Rojas	Costa Rica	H, I
Polypodiaceae	<i>Terpsichore glandulifera</i> A. Rojas	Costa Rica	H, I, P
Polypodiaceae	<i>Terpsichore smithii</i> A. Rojas	Costa Rica	H, I
Thelypteridaceae	<i>Thelypteris alan-smithiana</i> L.D. Gómez *	Honduras	H
Thelypteridaceae	<i>Thelypteris barvae</i> A. R. Sm. *	Costa Rica	I
Thelypteridaceae	<i>Thelypteris calypso</i> L.D. Gómez	Costa Rica	H, I, P
Thelypteridaceae	<i>Thelypteris chocoensis</i> A.R. Sm. & Lellinger *	Colombia	F
Thelypteridaceae	<i>Thelypteris crenata</i> A.R. Sm. & Lellinger	Costa Rica	I, P
Thelypteridaceae	<i>Thelypteris croatii</i> A.R. Sm.	Panamá	P
Thelypteridaceae	<i>Thelypteris darwinii</i> L.D. Gómez	México	I
Thelypteridaceae	<i>Thelypteris decussata</i> var. <i>costaricensis</i> A.R. Sm.	Costa Rica	I
Thelypteridaceae	<i>Thelypteris delasotae</i> A.R. Sm. & Lellinger *	Costa Rica	P, F

Thelypteridaceae	<i>Thelypteris gomeziana</i> A.R. Sm. & Lellinger *	Costa Rica	P, F
Thelypteridaceae	<i>Thelypteris grayumii</i> A.R. Sm. *	Costa Rica	I
Thelypteridaceae	<i>Thelypteris hondurensis</i> L.D. Gómez *	Honduras	H, I
Thelypteridaceae	<i>Thelypteris killipii</i> A.R. Sm. & Lellinger *	Colombia	F
Thelypteridaceae	<i>Thelypteris mombachensis</i> Croat	Nicaragua	H
Thelypteridaceae	<i>Thelypteris ophiorhizoma</i> A.R. Sm. & Lellinger *	Colombia	I, F
Thelypteridaceae	<i>Thelypteris oroniensis</i> L.D. Gómez	Costa Rica	H, I
Thelypteridaceae	<i>Thelypteris peripaeoides</i> L.D. Gómez *	Costa Rica	H, P
Thelypteridaceae	<i>Thelypteris strigillosa</i> A.R. Sm. & Lellinger *	Colombia	F
Thelypteridaceae	<i>Thelypteris subscandens</i> A. R. Sm. *	Costa Rica	I
Thelypteridaceae	<i>Thelypteris tapantensis</i> A.R. Sm. & Lellinger *	Costa Rica	I, P, F
Thelypteridaceae	<i>Thelypteris vernicosa</i> A.R. Sm. & Lellinger *	Panamá	F
Thelypteridaceae	<i>Thelypteris villana</i> L.D. Gómez	Costa Rica	I
Thelypteridaceae	<i>Thelypteris zurquiana</i> A.R. Sm. & Lellinger *	Costa Rica	P, F
Hymenophyllaceae	<i>Trichomanes capillaceum</i> var. <i>subclavatum</i> Christ *	Costa Rica	I
Hymenophyllaceae	<i>Trichomanes cocos</i> Christ	Costa Rica	I
Hymenophyllaceae	<i>Trichomanes collariatum</i> var. <i>alvaradoi</i> A. Rojas	Costa Rica	H, I, P
Hymenophyllaceae	<i>Trichomanes curtii</i> Rosenst.	Costa Rica	I
Hymenophyllaceae	<i>Trichomanes pusillum</i> var. <i>macropus</i> Christ *	Costa Rica	IL
Pteridaceae	<i>Vaginularia trichoidea</i> Fée	China?	F
Pteridaceae	<i>Vittaria bommeri</i> Christ *	Costa Rica	S
Pteridaceae	<i>Vittaria costaricensis</i> Lellinger *	Costa Rica	F

Table 2. List of the 13 specimens used in the descriptions of different taxa.

Specimen	Taxa 1	Taxa 2
H. Pittier 10981	<i>Alsophila leucolepis</i> var. <i>pubescens</i>	<i>Alsophila acutidens</i>
A. Tonduz 11784	<i>Dennstaedtia obtusifolia</i> var. <i>protrusa</i>	<i>Dicksonia obtusifolia</i> var. <i>protrusa</i>
W. Burger 5421	<i>Megalastrum longiglandulosum</i>	<i>Megalastrum longipilosum</i> var. <i>glandulosum</i>
H. Pittier 10993	<i>Ctenitis skutchii</i>	<i>Megalastrum intermedium</i>
L. Gómez-Pignataro 3347	<i>Elaphoglossum alvaradoanum</i>	<i>Elaphoglossum auripulum</i> var. <i>longipilosum</i>
I. Chacón 1162	<i>Elaphoglossum brenesii</i>	<i>Elaphoglossum heterochroum</i>
I. Chacón 2291	<i>Elaphoglossum lenticulatum</i>	<i>Elaphoglossum mitorrhizum</i>
W. Burger 8853 E. Scamman 7962	<i>Megalastrum costipubens</i>	<i>Megalastrum longipilosum</i> var. <i>glabrescens</i>
H. Pittier 13257	<i>Polypodium montigenum</i>	<i>Polypodium plebeium</i> var. <i>palmense</i>
P. Biolley 10688	<i>Polybotrya acuminata</i> var. <i>villosa</i>	<i>Polybotrya villosula</i>
S. Knapp 2109	<i>Elaphoglossum lanceiforme</i>	<i>Elaphoglossum pseudoerinaceum</i>
M. Valerio 168	<i>Elaphoglossum talamancanum</i>	<i>Elaphoglossum terrestre</i>

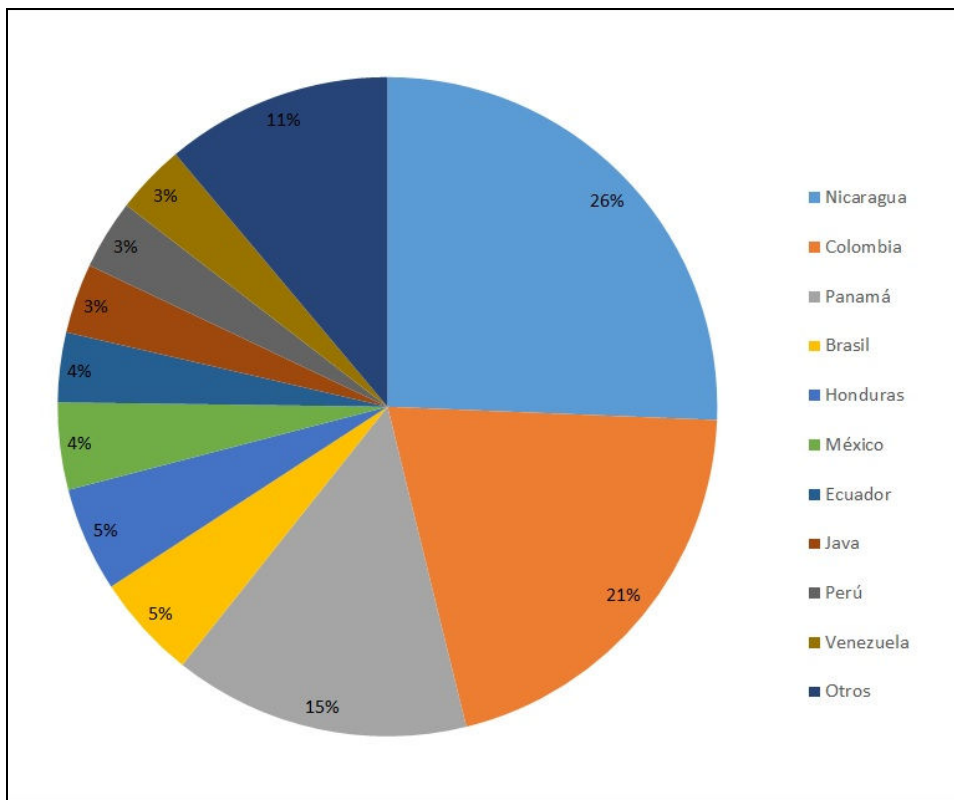


Figure 2. Distribution (%) of the foreign type species of Pteridophyta and Lycophyta in CR.

### **ACKNOWLEDGEMENTS**

I would like to thank María Teresa Vizoso (GDA) for her valuable collaboration in the search, registration, and scanning of a significant number of specimens. I also would like to extend my sincere gratitude to Dr. Robbin Moran (NY) for his critical review of the first draft of the paper.

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