

Changuinola River, Bocas del Toro Province, PANAMA

EPIPHYTES of the RIO CHANGUINOLA valley

ARACEAE

Stefan Laube^{1,2}, Lars Nauheimer², Glenda Mendieta-Leiva² & Tom Croat³

¹University of Oldenburg, Germany ²Project Gavilán, STRI ³Missouri Botanical Garden, USA

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Anthurium bakeri



Anthurium bakeri



Anthurium clavigerum



Anthurium clavigerum



Anthurium consobrinum



Anthurium consobrinum



Anthurium cuspidatum



Anthurium cuspidatum



Anthurium fatoense



Anthurium fatoense



Anthurium flexile



Anthurium flexile



Anthurium friedrichsthali



Anthurium formosum



Anthurium formosum



Anthurium gracile



Anthurium hoffmannii



Anthurium interruptum



Anthurium interruptum



Anthurium kallunkiae

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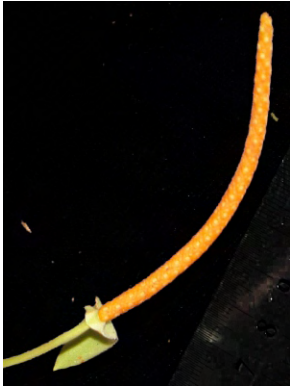
Stefan Laube^{1,2}, Lars Nauheimer², Glenda Mendieta-Leiva² & Tom Croat³

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Anthurium kallunkiae



Anthurium kunthii



Anthurium kunthii



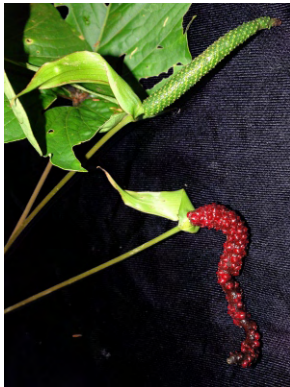
Anthurium michelii



Anthurium michelii



Anthurium ochranthum



Anthurium ochranthum



Anthurium pageanum



Anthurium pageanum



Anthurium panamense



Anthurium panamense



Anthurium pentaphyllum
var. *bombacifolium*



Anthurium pittieri



Anthurium
purpureospathum



Anthurium
purpureospathum



Anthurium ramonense



Anthurium ramonense



Anthurium scandens



Anthurium scandens



Anthurium trinerve

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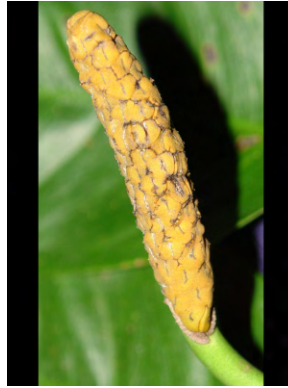
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Anthurium trinerve



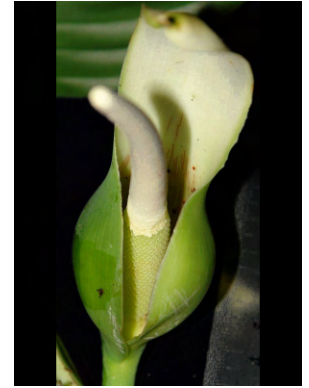
Monstera obliqua



Monstera obliqua



Philodendron aurantiifolium



Philodendron aurantiifolium



Philodendron ensifolium



Philodendron jodavisianum



Philodendron jodavisianum



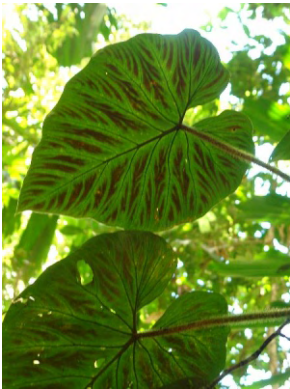
Philodendron radiatum



Philodendron sulcatum



Philodendron sulcatum



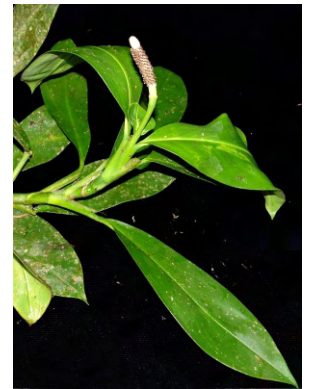
*Philodendron
verrucosum*



Rhodospatha wendlandii



*Stenospermatum
angustifolium*



*Stenospermatum
marantifolium*



*Stenospermatum
robustum*



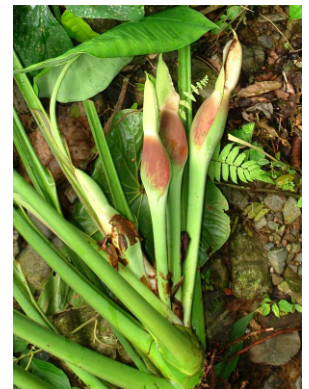
Syngonium podophyllum



Syngonium podophyllum



Syngonium schottianum



Syngonium schottianum

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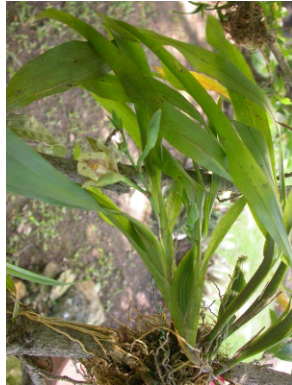
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Acianthera ellipsophylla



Aspasia principissa



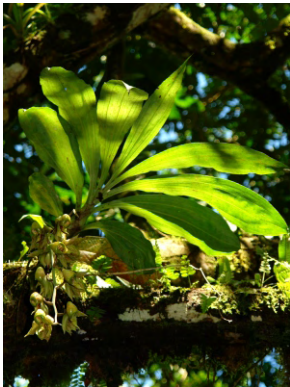
Aspasia principissa



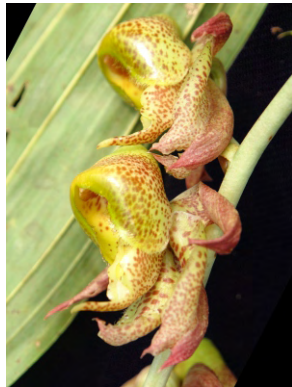
Campylocentrum micranthum



Campylocentrum micranthum



Catasetum maculatum



Catasetum maculatum



Cryptarrhena guatemalensis



Cryptarrhena guatemalensis



Dichaea brachypoda



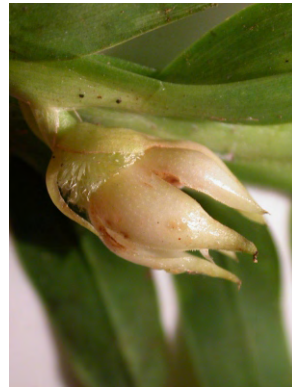
Dichaea brachypoda



Dichaea cf. eligulata



Dichaea fragrantissima



Dichaea fragrantissima



Dichaea panamensis



Dichaea panamensis



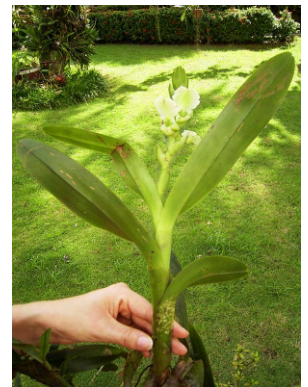
Elleanthus hymenophorus



Encyclia cochleata



Encyclia cochleata



Epidendrum circinatum

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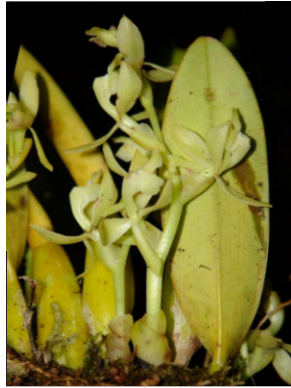
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Epidendrum circinatum



Epidendrum isomerum



Epidendrum laterale



Epidendrum nocturnum



Epidendrum raniferum



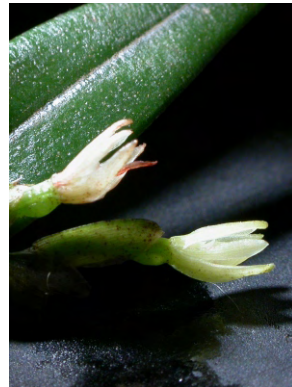
Epidendrum repens



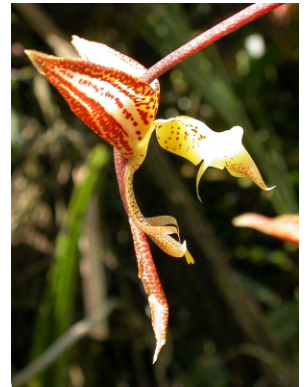
Epidendrum repens



Epidendrum strobiliferum



Epidendrum strobiliferum



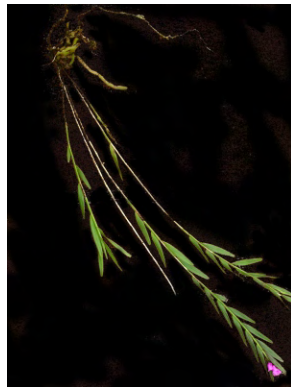
Gongora boracayanensis



Ionopsis satyrioides



Ionopsis satyrioides



Isochilus cf. chiriquensis



Isochilus cf. chiriquensis



Lepanthes sp. I



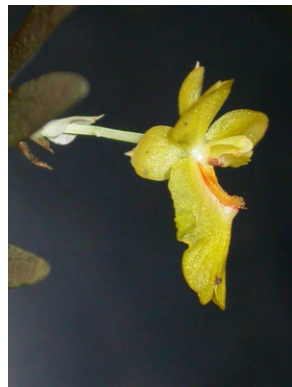
Lepanthes sp. I



Lepanthes sp. 2



Lockhartia pittieri



Lockhartia pittieri



Maxillaria bicallosa

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Maxillaria bicallosa



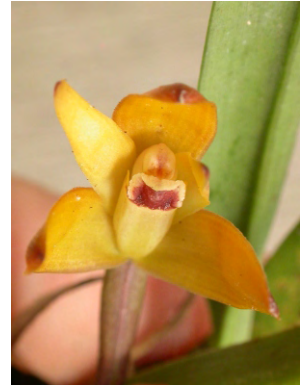
Maxillaria brachybulbon



Maxillaria brachybulbon



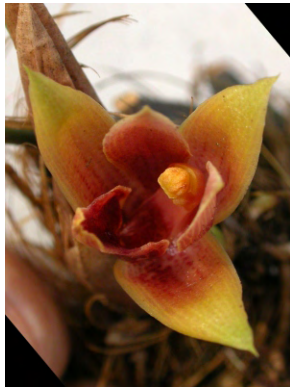
Maxillaria brunnea



Maxillaria brunnea



Maxillaria longipetiolata



Maxillaria longipetiolata



Maxillaria chartacifolia



Maxillaria chartacifolia



Maxillaria discolor



Maxillaria discolor



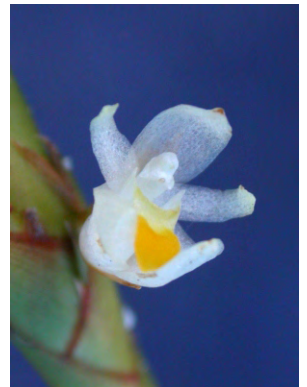
Maxillaria diuturna



Maxillaria diuturna



Maxillaria neglecta



Maxillaria neglecta



Maxillaria valenzuelana



Maxillaria valenzuelana



Mormodes skinneri



Mormodes skinneri



Muscarella marginata

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ORCHIDACEAE

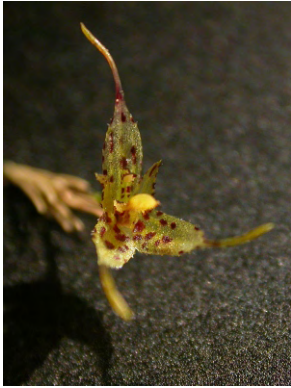
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Muscarella marginata



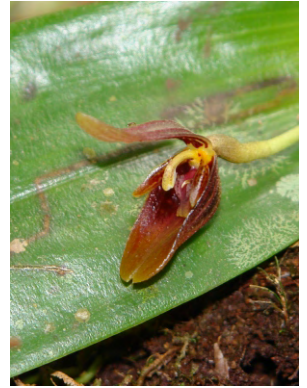
Myoxanthus scandens



Myoxanthus scandens



Myoxanthus uncinatus



Myoxanthus uncinatus



Nidema boothii



Nidema boothii



Octomeria costaricensis



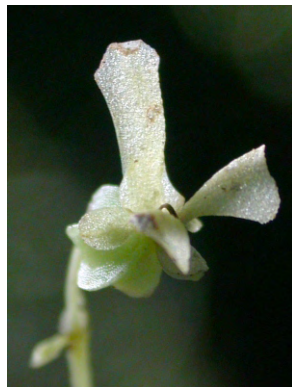
Oncidium bracteatum



Oncidium bracteatum



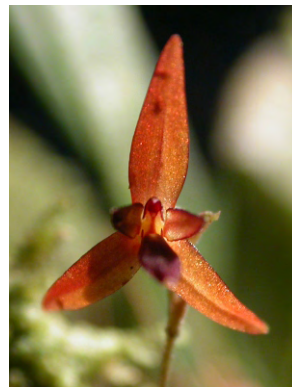
Ornithocephalus powellii



Ornithocephalus powellii



Panmorphia funerea



Panmorphia funerea



Platystele compacta



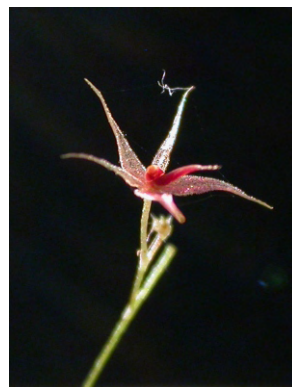
Platystele compacta



Platystele stenostachya



Platystele taylorii



Platystele taylorii



Pleurothallis allenii

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Pleurothallis allenii



Pleurothallis cardiothallis



Pleurothallis cardiothallis



Pleurothallis isthmica



Pleurothallis isthmica



Pleurothallis pantasmi



Pleurothallis pantasmi



Pleurothallis rhodoglossa



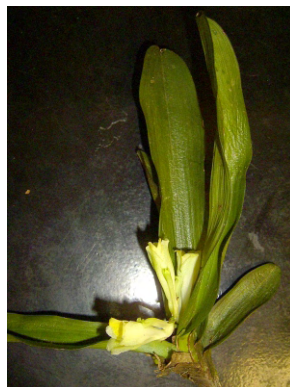
Pleurothallis rhodoglossa



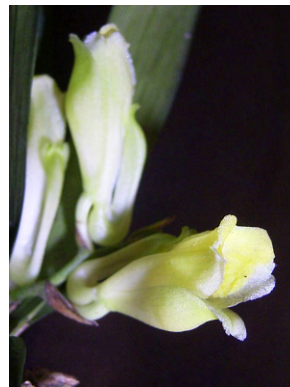
Polystachia foliosa



Psymorchis pumilio



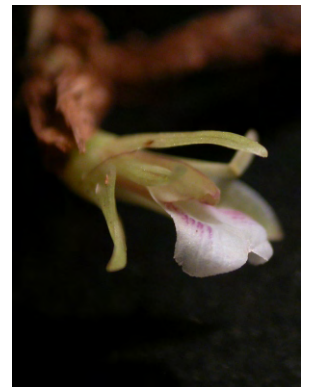
Rodriguezia compacta



Rodriguezia compacta



Scaphyglottis gracilis



Scaphyglottis gracilis



Scaphyglottis longicaulis



Scaphyglottis longicaulis



Scaphyglottis minutiflora



Scaphyglottis prolifera



Scaphyglottis prolifera

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Sobralia atropubescens



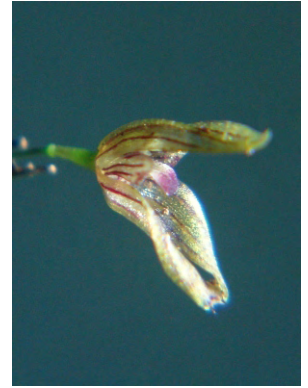
Sobralia atropubescens



Specklinia microphylla



Specklinia simmleriana



Specklinia simmleriana



Stanhoepa ecornuta



Stanhoepa ecornuta



Stanhoepa pulla



Stelis argentata



Stelis argentata



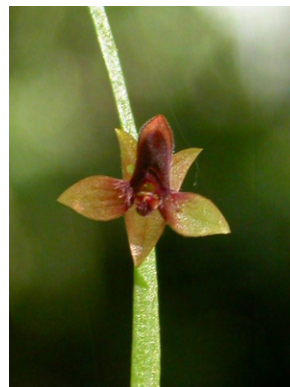
Stelis sp.



Stelis sp.



Telipogon bulpenense



Telipogon bulpenense



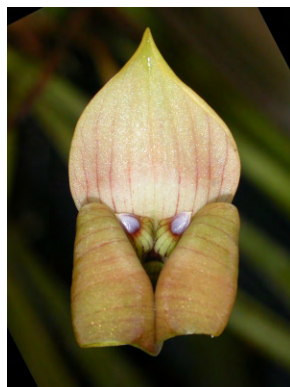
Trichosalpinx orbicularis



Trichosalpinx orbicularis



Trigonidium egertonianum



Trigonidium egertonianum



Trisetella triglochis



Trisetella triglochis

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PTERIDOPHYTA

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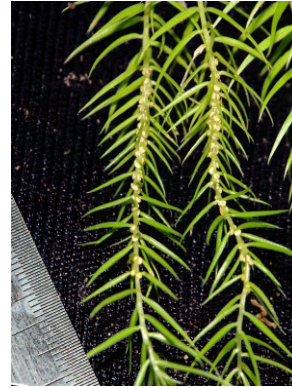
Huperzia dichotoma
LYCOPODIACEAE



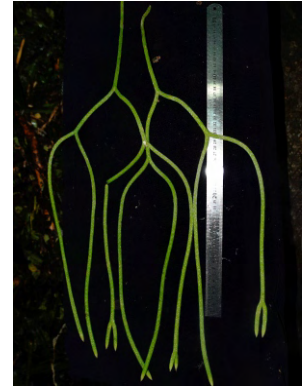
Huperzia dichotoma
LYCOPODIACEAE



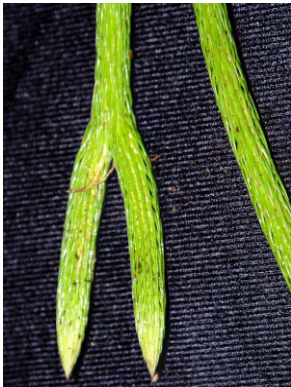
Huperzia linifolia
LYCOPODIACEAE



Huperzia linifolia
LYCOPODIACEAE



Huperzia funiformis
LYCOPODIACEAE



Huperzia funiformis
LYCOPODIACEAE



Asplenium auritum
ASPLENIACEAE



Asplenium juglandifolium
ASPLENIACEAE



Asplenium serra
ASPLENIACEAE



Asplenium serra
ASPLENIACEAE



Asplenium serratum
ASPLENIACEAE



Nephrolepis pectinata
DAVALLIACEAE



Nephrolepis pectinata
DAVALLIACEAE



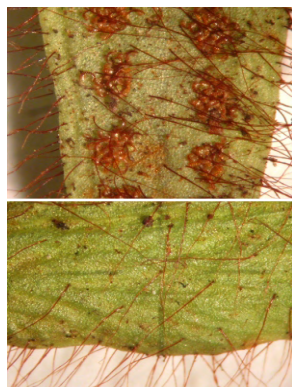
Oleandra articulata
DAVALLIACEAE



Oleandra articulata
DAVALLIACEAE



Grammitis cf. crispata
GRAMMITIDACEAE



Grammitis cf. crispata
GRAMMITIDACEAE



Grammitis cf. crispata
GRAMMITIDACEAE



Ceradenia pruinosa
GRAMMITIDACEAE



Ceradenia pruinosa
GRAMMITIDACEAE

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Ceradenia pruinosa
GRAMMITIDACEAE



Cochlidium serrulatum
GRAMMITIDACEAE



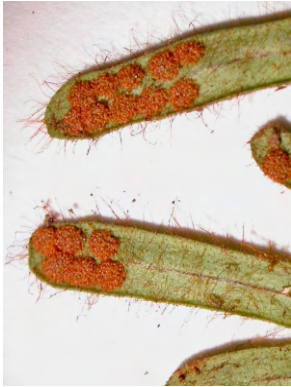
Lellingeria phlegmaria var. *phlegmaria*
GRAMMITIDACEAE



Lellingeria phlegmaria var. *phlegmaria*
GRAMMITIDACEAE



Ceradenia jungermannioides
GRAMMITIDACEAE



Ceradenia jungermannioides
GRAMMITIDACEAE



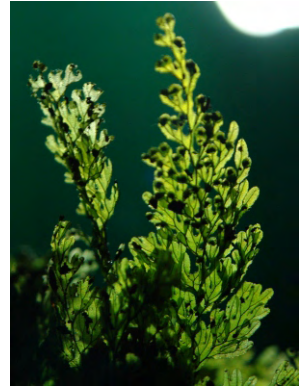
Terpsichore cf. *chrysleri*
GRAMMITIDACEAE



Hymenophyllum brevifrons
HYMENOPHYLLACEAE



Hymenophyllum brevifrons
HYMENOPHYLLACEAE



Hymenophyllum cf. *elegans*
HYMENOPHYLLACEAE



Hymenophyllum cf. *elegans*
HYMENOPHYLLACEAE



Hymenophyllum cf. *elegans*
HYMENOPHYLLACEAE



Hymenophyllum maxonii
HYMENOPHYLLACEAE



Hymenophyllum maxonii
HYMENOPHYLLACEAE



Hymenophyllum maxonii
HYMENOPHYLLACEAE



Hymenophyllum plumosum
HYMENOPHYLLACEAE



Hymenophyllum plumosum
HYMENOPHYLLACEAE



Hymenophyllum polyanthos
HYMENOPHYLLACEAE



Hymenophyllum polyanthos
HYMENOPHYLLACEAE



Hymenophyllum polyanthos
HYMENOPHYLLACEAE

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Trichomanes crispum
HYMENOPHYLLACEAE



Trichomanes crispum
HYMENOPHYLLACEAE



Trichomanes curtii
HYMENOPHYLLACEAE



Trichomanes collariatum
HYMENOPHYLLACEAE



Trichomanes collariatum
HYMENOPHYLLACEAE



Trichomanes aff. galeotii
HYMENOPHYLLACEAE



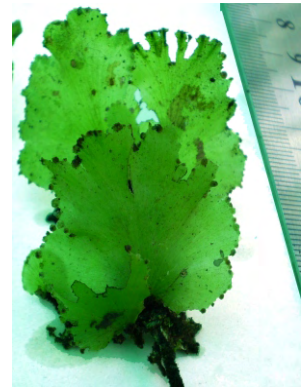
Trichomanes aff. galeotii
HYMENOPHYLLACEAE



Trichomanes aff. galeotii
HYMENOPHYLLACEAE



Trichomanes lucens
HYMENOPHYLLACEAE



Trichomanes membranaceum
HYMENOPHYLLACEAE



Trichomanes ovale
HYMENOPHYLLACEAE



Trichomanes polypodioides
HYMENOPHYLLACEAE



Trichomanes polypodioides
HYMENOPHYLLACEAE



Trichomanes tuerckheimii
HYMENOPHYLLACEAE



Bolbitis nicotianifolia (hemiepiphytic)
LOMARIOPSIDACEAE



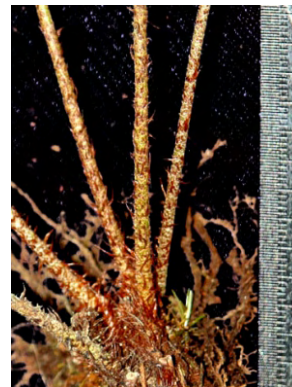
Elaphoglossum herminieri
LOMARIOPSIDACEAE



Elaphoglossum herminieri
LOMARIOPSIDACEAE



Elaphoglossum heterochroum
LOMARIOPSIDACEAE



Elaphoglossum heterochroum
LOMARIOPSIDACEAE



Elaphoglossum montgomeryi
LOMARIOPSIDACEAE

Changuinola River, Bocas del Toro Province, PANAMA EPIPHYTES of the RIO CHANGUINOLA valley

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PTERIDOPHYTA

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Elaphoglossum palmense
LOMARIOPSIDACEAE



Elaphoglossum peltatum
LOMARIOPSIDACEAE



Lomariopsis japurensis (hemiepiphytic)
LOMARIOPSIDACEAE



Lomariopsis vestita (hemiepiphytic)
LOMARIOPSIDACEAE



Campyloneurum angustifolium
POLYPODIACEAE



Campyloneurum angustifolium
POLYPODIACEAE



Campyloneurum aphanophlebium
POLYPODIACEAE



Campyloneurum aphanophlebium
POLYPODIACEAE



Campyloneurum costatum
POLYPODIACEAE



Campyloneurum costatum
POLYPODIACEAE



Campyloneurum phyllitidis
POLYPODIACEAE



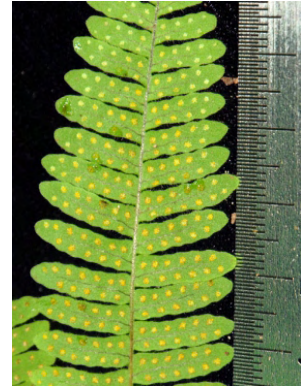
Campyloneurum phyllitidis
POLYPODIACEAE



Microgramma reptans
POLYPODIACEAE



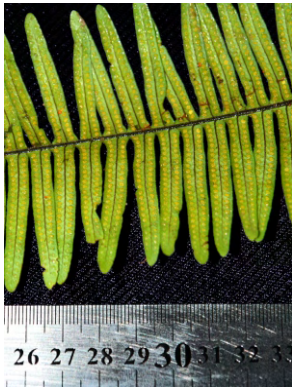
Pecluma hygrometrica
POLYPODIACEAE



Pecluma hygrometrica
POLYPODIACEAE



Pecluma pectinata
POLYPODIACEAE



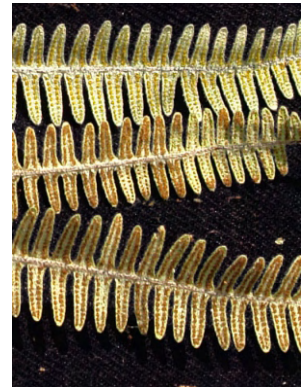
Pecluma pectinata
POLYPODIACEAE



Pleopeltis percussa
POLYPODIACEAE



Polypodium furfuraceum
POLYPODIACEAE



Polypodium furfuraceum
POLYPODIACEAE

Changuinola River, Bocas del Toro Province, PANAMA EPIPHYTES of the RIO CHANGUINOLA valley

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Polypodium giganteum
POLYPODIACEAE



Polypodium giganteum
POLYPODIACEAE



Polypodium lycopodioides
POLYPODIACEAE



Pleopeltis cf. panamensis
POLYPODIACEAE



Polypodium dissimile
POLYPODIACEAE



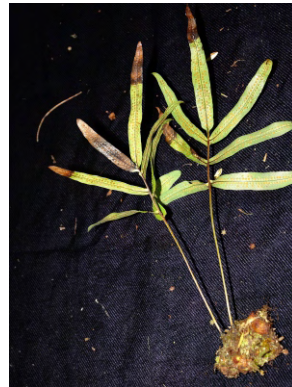
Polypodium dissimile
POLYPODIACEAE



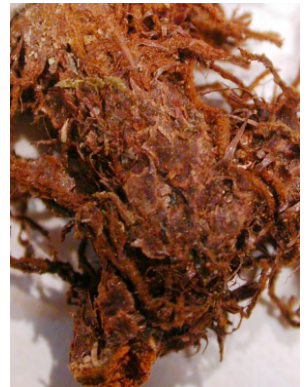
Polypodium sororium
POLYPODIACEAE



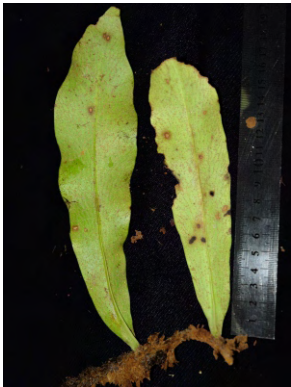
Polypodium sororium
POLYPODIACEAE



Polypodium triseriale
POLYPODIACEAE



Polypodium triseriale
POLYPODIACEAE



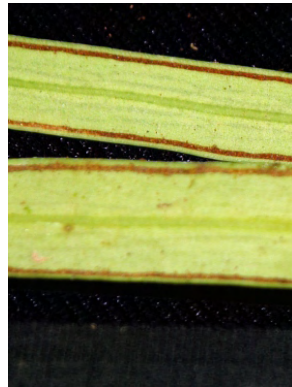
Anrophyum anetioides
VITTARIACEAE



Anrophyum anetioides
VITTARIACEAE



Ananathacorus angustifolius
VITTARIACEAE



Ananathacorus angustifolius
VITTARIACEAE



Anrophyum cajenense
VITTARIACEAE



Anrophyum cajenense
VITTARIACEAE



Anrophyum lanceolatum
VITTARIACEAE



Vittaria stipitata
VITTARIACEAE



Vittaria stipitata
VITTARIACEAE



Vittaria stipitata
VITTARIACEAE

Changuinola River, Bocas del Toro Province, PANAMA EPIPHYTES of the RIO CHANGUINOLA valley

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MISCELLANEOUS

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Aechmea angustifolia
BROMELIACEAE



Aechmea angustifolia
BROMELIACEAE



Aechmea mariae-reginae
BROMELIACEAE



Aechmea mariae-reginae
BROMELIACEAE



Aechmea pubescens
BROMELIACEAE



Aechmea pubescens
BROMELIACEAE



Aechmea tillandsioides
BROMELIACEAE



Aechmea tillandsioides
BROMELIACEAE



Catopsis morreniana
BROMELIACEAE



Catopsis sessiliflora
BROMELIACEAE



Guzmania lingulata
BROMELIACEAE



Guzmania monostachia
BROMELIACEAE



Guzmania monostachia
BROMELIACEAE



Guzmania scherzeriana
BROMELIACEAE



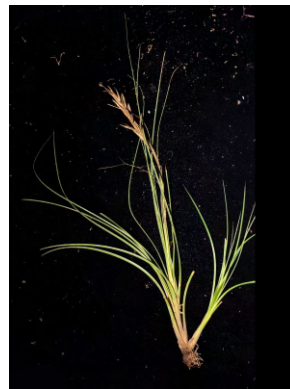
Guzmania scherzeriana
BROMELIACEAE



Guzmania subcorymbosa
BROMELIACEAE



Racinaea contorta
BROMELIACEAE



Tillandsia festucoides
BROMELIACEAE



Tillandsia festucoides
BROMELIACEAE



Tillandsia leiboldiana
BROMELIACEAE

Changuinola River, Bocas del Toro Province, **PANAMA**
EPIPHYTES of the **RIO CHANGUINOLA** valley

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Tillandsia leiboldiana
BROMELIACEAE



Tillandsia monadelpha
BROMELIACEAE



Tillandsia monadelpha
BROMELIACEAE



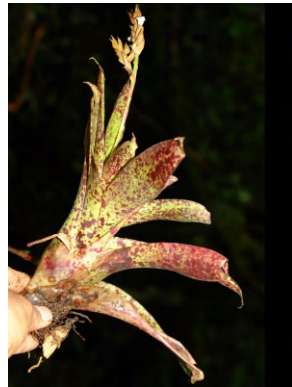
Tillandsia pruinosa
BROMELIACEAE



Tillandsia singularis
BROMELIACEAE



Tillandsia singularis
BROMELIACEAE



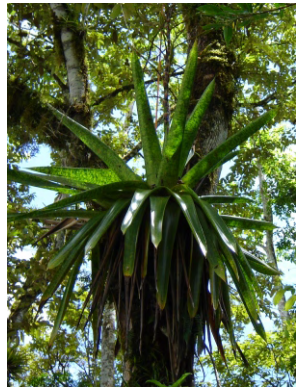
Tillandsia venusta
BROMELIACEAE



Tillandsia venusta
BROMELIACEAE



Vriesea heliconioides
BROMELIACEAE



Werauhia kupperiana
BROMELIACEAE



Werauhia kupperiana
BROMELIACEAE



Epiphyllum phyllanthus
CACTACEAE



Epiphyllum phyllanthus
CACTACEAE



Rhipsalis baccifera
CACTACEAE



Rhipsalis baccifera
CACTACEAE



Clusia gracilis
CLUSIACEAE



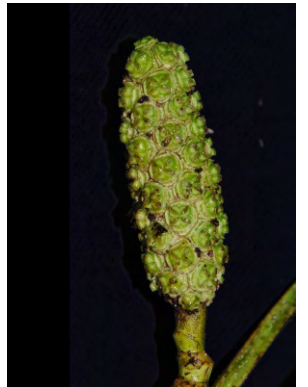
Clusia loranthacea
CLUSIACEAE



Clusia loranthacea
CLUSIACEAE



Asplundia vagans
CYCLANTHACEAE



Asplundia vagans
CYCLANTHACEAE

Changuinola River, Bocas del Toro Province, **PANAMA**
EPIPHYTES of the **RIO CHANGUINOLA** valley

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Corygne pendula
CYCLANTHACEAE



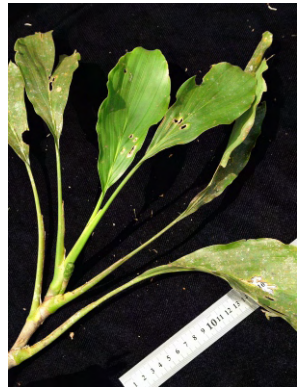
Corygne pendula
CYCLANTHACEAE



Evodianthus funifer
CYCLANTHACEAE



Evodianthus funifer
CYCLANTHACEAE



Ludovia integrifolia
CYCLANTHACEAE



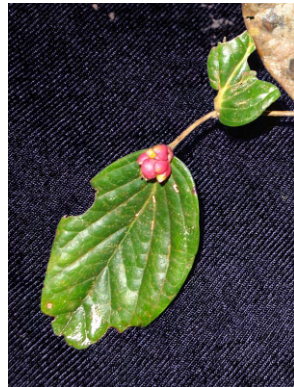
Ludovia integrifolia
CYCLANTHACEAE



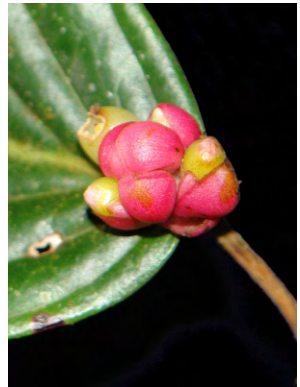
Sphaeradenia sp.
CYCLANTHACEAE



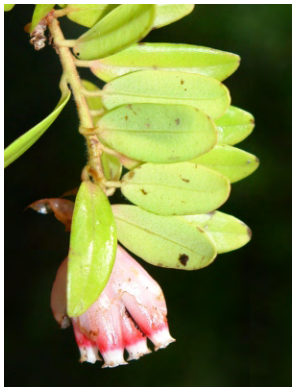
Sphaeradenia sp.
CYCLANTHACEAE



Cavendishia axillaris
ERICACEAE



Cavendishia axillaris
ERICACEAE



Cavendishia capitulata
ERICACEAE



Satyria panurensis
ERICACEAE



Satyria panurensis
ERICACEAE



Macleania smithiana
ERICACEAE



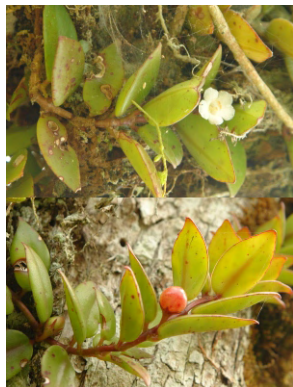
Macleania smithiana
ERICACEAE



Sphyrnospermum buxifolium
ERICACEAE



Codonanthe uleana
GESNERIACEAE



Codonanthe crassifolia
GESNERIACEAE



Columnea hirta
GESNERIACEAE



Columnea hirta
GESNERIACEAE

Changuinola River, Bocas del Toro Province, **PANAMA**
EPIPHYTES of the **RIO CHANGUINOLA** valley

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Columnnea maculata
 GESNERIACEAE



Columnnea maculata
 GESNERIACEAE



Columnnea sanguinolenta
 GESNERIACEAE



Columnnea sanguinolenta
 GESNERIACEAE



Drymonia conchocalyx
 GESNERIACEAE



Drymonia conchocalyx
 GESNERIACEAE



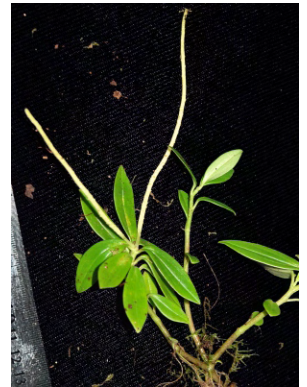
Drymonia coriacea
 GESNERIACEAE



Drymonia coriacea
 GESNERIACEAE



Peperomia emarginella
 PIPERACEAE



Peperomia glabella
 PIPERACEAE



Peperomia glabra
 PIPERACEAE



Peperomia hernandiifolia
 PIPERACEAE



Peperomia macrostachya
 PIPERACEAE



Peperomia montium
 PIPERACEAE



Peperomia obtusifolia
 PIPERACEAE



Peperomia oerstedii
 PIPERACEAE



Peperomia pernambucensis
 PIPERACEAE



Peperomia rotundifolia
 PIPERACEAE



Peperomia serpens
 PIPERACEAE



Peperomia urocarpa
 PIPERACEAE