

# Sachatamia, San Miguel de Los Bancos, Pichincha, Ecuador

## Plants of Sachatamia Reserve visited by hummingbirds

Francisco Tobar<sup>1,4</sup>, Esteban A. Guevara<sup>1,2</sup>, María José Gavilanes<sup>1</sup>, Cristian Poveda<sup>1</sup>, Andrés Marcapata<sup>1</sup>, Andrea Nieto<sup>1</sup>, Álvaro J. Pérez<sup>3</sup>, Bryan Rojas<sup>1</sup>, Daniela Cevallos<sup>3</sup>, Edison Rea<sup>3</sup> & Catherine H. Graham<sup>2</sup>

<sup>1</sup>Área de Investigación y Monitoreo de Avifauna, Aves y Conservación – BirdLife en Ecuador, <sup>2</sup>Biodiversity and Conservation Biology Unit, Swiss Federal Research Institute WSL, <sup>3</sup>Herbario QCA, Pontificia Universidad Católica del Ecuador, <sup>4</sup>Herbario Nacional del Ecuador, Instituto Nacional de Biodiversidad

Photos: Francisco Tobar, Miguel Hipo, Andrés Marcapata, Cristian Poveda, and Aves y Conservación. Produced by Francisco Tobar [pacotobar76@hotmail.com] Acknowledgment: Swiss Federal Research Institute (WSL), National Geographic Society (Grant N° 9952-16), Swiss National Science Foundation (SNF Grant N° 173342), European Research Council Advanced Grants (ERC Grant N° 787638), Aves y Conservación/BirdLife in Ecuador and Rufford Foundation – Sachatamia Lodge.

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Miguel Hipo

Sachatamia Reserve is located in the northwestern slope of the Andes in Ecuador. It protects ~120 ha of cloud forest which is home to a great diversity of plants and animals, many of them endemic to the Chocó region. The reserve has a mosaic of mature and young successional forest. In the Ecology of Plant Hummingbird Interaction Project (EPI), we recorded up to 19 hummingbird species feeding on the flowers of c. 93 plant species. These interactions between hummingbirds and plants (e.g. bromeliads and orchids) often result in pollination, and thus are important for the maintenance of ecosystem functioning. In this guide, we present photos of plant species visited by hummingbirds in Sachatamia Reserve, specifically from the area known as “Piedras Negras”, a large tract of mature forest that connects the reserve with the Mindo-Nambillo protected forest. We thank Ramiro Salazar, the reserve’s owner for letting us work in the reserve, Angélica Quezada for logistics, Daniel Ponce for helping us during fieldwork and Tatiana Santander for her careful review and insightful comments that improved the document.



1 *Bomarea pardina*  
ALSTROEMERIACEAE



2 *Bomarea pardina*  
ALSTROEMERIACEAE



3 *Bomarea spissiflora*  
ALSTROEMERIACEAE



4 *Guzmania angustifolia*  
BROMELIACEAE



5 *Guzmania angustifolia*  
BROMELIACEAE



6 *Guzmania danielii*  
BROMELIACEAE



7 *Guzmania danielii*  
BROMELIACEAE



8 *Guzmania jaramilloi*  
BROMELIACEAE



9 *Guzmania jaramilloi*  
BROMELIACEAE



10 *Guzmania multiflora*  
BROMELIACEAE

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11 *Guzmania musaica*  
BROMELIACEAE



12 *Guzmania teuscheri*  
BROMELIACEAE



13 *Guzmania teuscheri*  
BROMELIACEAE



14 *Guzmania wittmackii*  
BROMELIACEAE



15 *Guzmania wittmackii*  
BROMELIACEAE



16 *Guzmania xanthobractea*  
BROMELIACEAE



17 *Guzmania xanthobractea*  
BROMELIACEAE



18 *Guzmania xanthobractea*  
BROMELIACEAE



19 *Mezobromelia capituligera*  
BROMELIACEAE



20 *Pitcairnia nigra*  
BROMELIACEAE



21 *Pitcairnia nigra*  
BROMELIACEAE



22 *Tillandsia complanata*  
BROMELIACEAE



23 *Tillandsia complanata*  
BROMELIACEAE



24 *Tillandsia cyanea*  
BROMELIACEAE



25 *Tillandsia cyanea*  
BROMELIACEAE



26 *Burmeistera cyclostigmata*  
CAMPANULACEAE



27 *Burmeistera cyclostigmata*  
CAMPANULACEAE



28 *Burmeistera cyclostigmata*  
CAMPANULACEAE



29 *Burmeistera multiflora*  
CAMPANULACEAE



30 *Burmeistera multiflora*  
CAMPANULACEAE

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3

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31 *Centropogon calycinus*  
CAMPANULACEAE



32 *Centropogon solanifolius*  
CAMPANULACEAE



33 *Centropogon solanifolius*  
CAMPANULACEAE



34 *Podandroyne* sp. 1  
CLEOMACEAEAE



35 *Podandroyne* sp. 1  
CLEOMACEAEAE



36 *Podandroyne* sp. 1  
CLEOMACEAEAE



37 *Cavendishia grandifolia*  
ERICACEAE



38 *Cavendishia grandifolia*  
ERICACEAE



39 *Cavendishia tarapotana*  
ERICACEAE



40 *Cavendishia tarapotana*  
ERICACEAE



41 *Disterigma pentandrum*  
ERICACEAE



42 *Disterigma pentandrum*  
ERICACEAE



43 *Disterigma pentandrum*  
ERICACEAE



44 *Macleania bullata*  
ERICACEAE



45 *Macleania cordifolia*  
ERICACEAE



46 *Macleania pentaptera*  
ERICACEAE



47 *Macleania pentaptera*  
ERICACEAE



48 *Macleania recumbens*  
ERICACEAE



49 *Macleania recumbens*  
ERICACEAE



50 *Psammisia aberrans*  
ERICACEAE

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51 *Psammisia aberrans*  
ERICACEAE



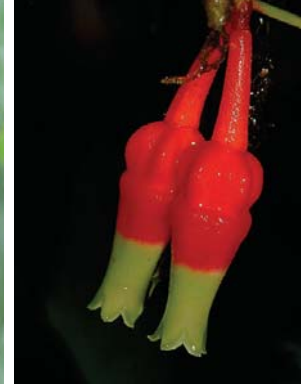
52 *Psammisia ecuadorensis*  
ERICACEAE



53 *Psammisia ecuadorensis*  
ERICACEAE



54 *Psammisia flaviflora*  
ERICACEAE



55 *Psammisia oreogenes*  
ERICACEAE



56 *Psammisia pauciflora*  
ERICACEAE



57 *Psammisia pauciflora*  
ERICACEAE



58 *Psammisia sodiroi*  
ERICACEAE



59 *Psammisia sodiroi*  
ERICACEAE



60 *Psammisia ulbrichiana*  
ERICACEAE



61 *Psammisia ulbrichiana*  
ERICACEAE



62 *Sphyrospermum buxifolium*  
ERICACEAE



63 *Sphyrospermum buxifolium*  
ERICACEAE



64 *Sphyrospermum buxifolium*  
ERICACEAE



65 *Thibaudia inflata*  
ERICACEAE



66 *Thibaudia inflata*  
ERICACEAE



67 *Thibaudia martiniana*  
ERICACEAE



68 *Thibaudia martiniana*  
ERICACEAE



69 *Calliandra houstoniana*  
FABACEAE



70 *Calliandra houstoniana*  
FABACEAE

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71 *Erythrina edulis*  
FABACEAE



72 *Erythrina edulis*  
FABACEAE



73 *Columnnea ciliata*  
GESNERIACEAE



74 *Columnnea ciliata*  
GESNERIACEAE



75 *Columnnea kuczyniakii*  
GESNERIACEAE



76 *Columnnea kuczyniakii*  
GESNERIACEAE



77 *Columnnea medicinalis*  
GESNERIACEAE



78 *Columnnea medicinalis*  
GESNERIACEAE



79 *Columnnea tandapiana*  
GESNERIACEAE



80 *Columnnea angulata*  
GESNERIACEAE



81 *Drymonia brochidodroma*  
GESNERIACEAE



82 *Drymonia brochidodroma*  
GESNERIACEAE



83 *Drymonia tenuis*  
GESNERIACEAE



84 *Drymonia tenuis*  
GESNERIACEAE



85 *Gasteranthus lateralis*  
GESNERIACEAE



86 *Gasteranthus lateralis*  
GESNERIACEAE



87 *Gasteranthus pansamalanus*  
GESNERIACEAE



88 *Gasteranthus pansamalanus*  
GESNERIACEAE



89 *Gasteranthus quitensis*  
GESNERIACEAE



90 *Glossoloma herthae*  
GESNERIACEAE

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91 *Glossoloma herthae*  
GESNERIACEAE



92 *Glossoloma medusaeum*  
GESNERIACEAE



93 *Glossoloma medusaeum*  
GESNERIACEAE



94 *Glossoloma penduliflorum*  
GESNERIACEAE



95 *Glossoloma penduliflorum*  
GESNERIACEAE



96 *Glossoloma penduliflorum*  
GESNERIACEAE



97 *Glossoloma sprucei*  
GESNERIACEAE



98 *Glossoloma sprucei*  
GESNERIACEAE



99 *Heppiella ulmifolia*  
GESNERIACEAE



100 *Heppiella ulmifolia*  
GESNERIACEAE



101 *Kohleria affinis*  
GESNERIACEAE



102 *Kohleria affinis*  
GESNERIACEAE



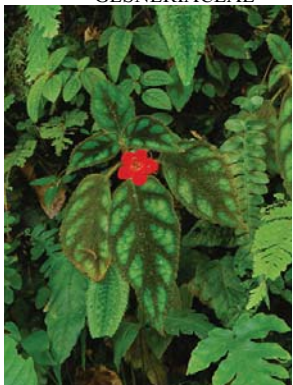
103 *Kohleria affinis*  
GESNERIACEAE



104 *Kohleria spicata*  
GESNERIACEAE



105 *Kohleria villosa*  
GESNERIACEAE



106 *Kohleria villosa*  
GESNERIACEAE



107 *Pachycaulos nummularia*  
GESNERIACEAE



108 *Pachycaulos nummularia*  
GESNERIACEAE



109 *Heliconia amygdiana*  
HELICONIACEAE



110 *Heliconia burleana*  
HELICONIACEAE

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111 *Heliconia harlingii*  
HELICONIACEAE



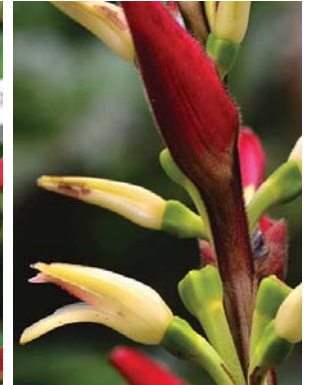
112 *Heliconia impudica*  
HELICONIACEAE



113 *Heliconia latispatha*  
HELICONIACEAE



114 *Heliconia virginalis*  
HELICONIACEAE



115 *Heliconia virginalis*  
HELICONIACEAE



116 *Salvia scutellarioides*  
LAMIACEAE



117 *Salvia scutellarioides*  
LAMIACEAE



118 *Stachys lamioides*  
LAMIACEAE



119 *Sarcopera anomala*  
MARCGRAVIACEAE



120 *Matisia castano*  
MALVACEAE



121 *Meriania pichinchensis*  
MELASTOMATACEAE



122 *Meriania pichinchensis*  
MELASTOMATACEAE



123 *Meriania tomentosa*  
MELASTOMATACEAE



124 *Meriania tomentosa*  
MELASTOMATACEAE



125 *Fuchsia macrostigma*  
ONAGRACEAE



126 *Fuchsia macrostigma*  
ONAGRACEAE



127 *Fuchsia scabriuscula*  
ONAGRACEAE



128 *Elleanthus smithii*  
ORCHIDACEAE



129 *Elleanthus smithii*  
ORCHIDACEAE



130 *Elleanthus confusus*  
ORCHIDACEAE

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131 *Agouticarpa grandistipula*  
RUBIACEAE



132 *Hoffmannia killipii*  
RUBIACEAE



133 *Hoffmannia killipii*  
RUBIACEAE



134 *Hoffmannia verticillata*  
RUBIACEAE



135 *Palicourea anderssoniana*  
RUBIACEAE



136 *Palicourea asplundii*  
RUBIACEAE



137 *Palicourea chimboracensis*  
RUBIACEAE



138 *Palicourea demissa*  
RUBIACEAE



139 *Palicourea guianensis*  
RUBIACEAE



140 *Palicourea guianensis*  
RUBIACEAE



141 *Palicourea heilbornii*  
RUBIACEAE



142 *Palicourea sodiroi*  
RUBIACEAE



143 *Palicourea sodiroi*  
RUBIACEAE



144 *Psychotria hazenii*  
RUBIACEAE



145 *Psychotria hazenii*  
RUBIACEAE



146 *Brugmansia candida*  
SOLANACEAE



147 *Cestrum morae*  
SOLANACEAE



148 *Cuatresia harlingiana*  
SOLANACEAE



149 *Cuatresia harlingiana*  
SOLANACEAE



150 *Markea spruceana*  
SOLANACEAE



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151 *Markea spruceana*  
SOLANACEAE



152 *Schultesianthus leucanthus*  
SOLANACEAE



153 *Schultesianthus leucanthus*  
SOLANACEAE



154 *Streptosolen jamesonii*  
SOLANACEAE



155 *Trianaea nobilis*  
SOLANACEAE



156 *Trianaea nobilis*  
SOLANACEAE



157 *Renealmia dolichocalyx*  
ZINGIBERACEAE



158 *Renealmia dolichocalyx*  
ZINGIBERACEAE



159 *Renealmia sessilifolia*  
ZINGIBERACEAE



150 *Renealmia sessilifolia*  
ZINGIBERACEAE



151 *Agelaiocercus coelestis* ♀ (Violet-tailed Sylph)  
TROCHILIDAE



152 *Agelaiocercus coelestis* ♂ (Violet-tailed Sylph)  
TROCHILIDAE

Sachatamia, San Miguel de Los Bancos, Pichincha, Ecuador  
**Plants of Sachatamia Reserve visited by hummingbirds**

Francisco Tobar<sup>1,4</sup>, Esteban A. Guevara<sup>1,2</sup>, María José Gavilanes<sup>1</sup>, Cristian Poveda<sup>1</sup>, Andrés Marcapata<sup>1</sup>, Andrea Nieto<sup>1</sup>, Álvaro J. Pérez<sup>3</sup>,  
Bryan Rojas<sup>1</sup>, Daniela Cevallos<sup>3</sup>, Edison Rea<sup>3</sup> & Catherine H. Graham<sup>2</sup>

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Photos: Francisco Tobar, Miguel Hipo, Andrés Marcapata, Cristian Poveda, and Aves y Conservación. Produced by Francisco Tobar [pacotobar76@hotmail.com] Acknowledgment: Swiss Federal Research Institute (WSL), National Geographic Society (Grant N° 9952-16), Swiss National Science Foundation (SNF Grant N° 173342), European Research Council Advanced Grants (ERC Grant N° 787638), Aves y Conservación/BirdLife in Ecuador and Rufford Foundation – Sachatamia Lodge.

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153 *Agelaiocercus coelestis* ♀ (Violet-tailed Sylph)  
TROCHILIDAE



154 *Boissonneaua jardini* (Velvet-purple Coronet)  
TROCHILIDAE



155 *Coeligena wilsoni* (Brown Inca)  
TROCHILIDAE



156 *Doryfera ludovicae* (Green-fronted Lancebill)  
TROCHILIDAE



157 *Heliodoxa rubinoides* ♀ (Fawn-breasted Brilliant)  
TROCHILIDAE



158 *Ocreatus underwoodii* ♀ (Booted Racket-tail)  
TROCHILIDAE

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159 *Phaethornis syrmatophorus* (Tawny-bellied Hermit)  
TROCHILIDAE



160 *Phaethornis syrmatophorus* (Tawny-bellied Hermit)  
TROCHILIDAE



161 *Schistes albogularis* (Choco Daggerbill)  
TROCHILIDAE



162 *Schistes albogularis* (Choco Daggerbill)  
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163 *Thalurania colombica* ♀ (Crowned Woodnymph)  
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164 *Urosticte benjamini* ♀ (Purple-bibbed Whitetip)  
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