

**S1 Table. Focal species, including their classification into dry or wet origin.**

species	abbreviation	family (-ceae)	origin	criteria for classification
<i>Aspidosperma spruceanum</i> Benth. ex Müll. Arg.	ASPISP	Apocyna	wet	1
<i>Bonellia macrocarpa</i> (Cav.) B. Ståhl & Källersjö	BONEMA	Primula	dry	3
<i>Calophyllum longifolium</i> Willd.	CALOLO	Calophylla	wet	1
<i>Chamaedorea tepejilote</i> Liebm.	CHAMTE	Areca	wet	1
<i>Chrysophyllum argenteum</i> Jacq.	CHRYAR	Sapota	wet	1,2
<i>Chrysophyllum cainito</i> L.	CHRYCA	Sapota	dry	1,2
<i>Coussarea curvigemma</i> Dwyer	COUSCU	Rubia	dry	1
<i>Cupania rufescens</i> Triana & Planch.	CUPARU	Sapinda	dry	1
<i>Dipteryx oleifera</i> Benth.	DIPTOL	Faba	wet	1
<i>Enterolobium schomburgkii</i> (Benth.) Benth.	ENTESC	Faba	dry	1
<i>Fissicalyx fendleri</i> Benth.	FISSFE	Faba	dry	1
<i>Genipa americana</i> L.	GENIAM	Rubia	dry	1,2
<i>Guatteria amplifolia</i> Triana & Planch.	GUATAM	Annona	wet	1
<i>Guatteria dumetorum</i> R.E. Fr.	GUATDU	Annona	wet	1
<i>Inga goldmanii</i> Pittier	INGAGO	Faba	wet	1,2
<i>Inga marginata</i> Willd.	INGAMA	Faba	wet	1
<i>Lacmellea panamensis</i> (Woodson) Markgr.	LACMPA	Apocyna	wet	1
<i>Lafoensia punicifolia</i> DC.	LAFOPU	Lythra	dry	1
<i>Mouriri myrtilloides</i> (Sw.) Poir.	MOURMY	Melastomata	wet	1
<i>Platymiscium pinnatum</i> (Jacq.) Dugand	PLATPI	Faba	wet	1
<i>Prioria copaifera</i> Griseb.	PRIOCO	Faba	wet	1
<i>Sterculia apetala</i> (Jacq.) H. Karst.	STERAP	Malva	dry	1
<i>Swartzia simplex</i> (Sw.) Spreng.	SWARSI	Faba	dry	1
<i>Tabernaemontana arborea</i> Rose	TABEAR	Apocyna	wet	1
<i>Trichilia hirta</i> L.	TRICHI	Melia	dry	1
<i>Unonopsis pittieri</i> Saff.	UNONPI	Annona	wet	3

Criteria used:

1: occurrence maps according to CTFS [42], available at

<http://ctfs.arnarb.harvard.edu/webatlas/maintreeatlas.php>

2: abundance data according to CTFS [42], available at

<http://ctfs.arnarb.harvard.edu/webatlas/datasets/>

3: description of the species according to CTFS [42]