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| **S1 Table The plant list with the description of trait and environment.** | | | | | | | | | | |
| **Species** | **Code** | **Family** | **Total Leaf Area** | **Growth Form** | **Photosynthesis pathway** | **Light** | **Temperature** | **Water** | **Fertility** | **pH** |
| Kudoacanthus albo-nervosa | *Kudoal* | Acanthaceae | Mediate | Herb | C3 | Heliophyte | Heat tolerant | Wet | Rich | Neutral |
| Clivia miniata | *Clivmi* | Amaryllidaceae | Mediate | Herb | C3 | Mesophyte | Generalist | Wet | Rich | Acid |
| Pistacia weinmannifolia | *Pistwe* | Anacardiaceae | Mediate | Shrub | C3 | Heliophyte | Cold tolerant | Dry | Poor | Neutral |
| Adenium obesum | *Adenob* | Apocynaceae | Small | Shrub | C3 | Heliophyte | Heat tolerant | Dry | Poor | Alkaline |
| Aglaonema modestum | *Aglamo* | Araceae | Mediate | Herb | C3 | Sciophyte | Heat tolerant | Wet | Rich | Acid |
| Alocasia amazonica | *Alocam* | Araceae | Small | Herb | C3 | Sciophyte | Heat tolerant | Wet | Rich | Neutral |
| Anthurium andraeanum | *Anthan* | Araceae | Mediate | Herb | C3 | Sciophyte | Heat tolerant | Wet | Poor | Neutral |
| Dieffenbachia picta | *Diefpi* | Araceae | Small | Herb | C3 | Sciophyte | Heat tolerant | Wet | Rich | Neutral |
| Epipremnum aureum | *Epipau* | Araceae | Mediate | Herb | C3 | Sciophyte | Heat tolerant | Wet | Rich | Acid |
| Monstera deliciosa | *Monsde* | Araceae | Mediate | Herb | C3 | Sciophyte | Heat tolerant | Wet | Poor | Neutral |
| Philodendron andreanum 'con-go' | *Philco* | Araceae | Small | Herb | C3 | Sciophyte | Heat tolerant | Wet | Poor | Neutral |
| Philodendron selloum | *Philse* | Araceae | Small | Herb | C3 | Mesophyte | Heat tolerant | Wet | Rich | Acid |
| Spathiphyllum kochii | *Spatfl* | Araceae | Mediate | Herb | C3 | Sciophyte | Heat tolerant | Wet | Rich | Neutral |
| Syngonium podophyllum ‘White Butterfly’ | *Syngpw* | Araceae | Mediate | Herb | C3 | Sciophyte | Heat tolerant | Wet | Rich | Neutral |
| Syngonium podophylum | *Syngpo* | Araceae | Mediate | Herb | C3 | Sciophyte | Generalist | Wet | Rich | Acid |
| Zamioculcas zamiifolia | *Zamiza* | Araceae | Small | Herb | C3 | Sciophyte | Heat tolerant | Dry | Rich | Acid |
| Hedera nepalensis var. sinensis | *Hedene* | Araliaceae | Mediate | Shrub | C3 | Sciophyte | Generalist | Wet | Rich | Neutral |
| Polyscias fruticosa | *Polyfr* | Araliaceae | Small | Shrub | C3 | Sciophyte | Generalist | Dry | Rich | Neutral |
| Pritchardia gaudichaudii | *Pritga* | Arecaceae | Large | Shrub | C3 | Heliophyte | Heat tolerant | Wet | Poor | Acid |
| Rhapis excelsa | *Rhapex* | Arecaceae | Mediate | Shrub | C3 | Heliophyte | Heat tolerant | Wet | Rich | Acid |
| Dahlia pinnata | *Dahlpi* | Asteraceae | Mediate | Herb | C4 | Heliophyte | Generalist | Wet | Rich | Neutral |
| Begonia semperflorens | *Begose* | Begoniaceae | Small | Herb | C3 | Heliophyte | Heat tolerant | Wet | Rich | Neutral |
| Radermachera hainanensis | *Radeha* | Bignoniaceae | Large | Shrub | C3 | Heliophyte | Heat tolerant | Dry | Rich | Alkaline |
| Guzmania lingulata×squarrosa 'Denise' | *Guzmde* | Bromeliaceae | Large | Herb | CAM | Mesophyte | Generalist | Wet | Rich | Neutral |
| Schlumbergera truncata | *Schltr* | Cactaceae | Mediate | Herb | CAM | Mesophyte | Generalist | Dry | Rich | Acid |
| Commelina communis | *Commco* | Commelinaceae | Mediate | Herb | C3 | Heliophyte | Generalist | Dry | Rich | Neutral |
| Zebrina pendula | *Zebrpe* | Commelinaceae | Large | Herb | C3 | Sciophyte | Generalist | Wet | Rich | Neutral |
| Kalanchoe blossfeldiana | *Kalabl* | Crassulaceae | Mediate | Herb | CAM | Heliophyte | Heat tolerant | Dry | Poor | Alkaline |
| Kalanchoe thyrsifolia | *Kalath* | Crassulaceae | Mediate | Herb | CAM | Mesophyte | Heat tolerant | Dry | Poor | Alkaline |
| Sedum makinoi | *Seduma* | Crassulaceae | Small | Herb | CAM | Sciophyte | Cold tolerant | Dry | Rich | Neutral |
| Sedum makinoi f. variegata | *Sedumv* | Crassulaceae | Small | Herb | CAM | Sciophyte | Cold tolerant | Dry | Rich | Neutral |
| Rhododendron simsii | *Rhodsi* | Ericaceae | Mediate | Shrub | C3 | Mesophyte | Heat tolerant | Dry | Rich | Acid |
| Codiaeum variegatum | *Codiva* | Euphorbiaceae | Mediate | Shrub | C4 | Heliophyte | Heat tolerant | Wet | Rich | Acid |
| Euphorbia pulcherrima | *Euphpu* | Euphorbiaceae | Mediate | Herb | C4 | Heliophyte | Generalist | Wet | Rich | Acid |
| Pelargonium graveolens | *Pelagr* | Geraniaceae | Small | Herb | C3 | Sciophyte | Generalist | Wet | Poor | Neutral |
| Columnea gloriosa | *Colugl* | Gesneriaceae | Mediate | Herb | C3 | Sciophyte | Heat tolerant | Dry | Rich | Neutral |
| Mantha rotundifolia 'Variegata’ | *Mantro* | Lamiaceae | Small | Herb | C3 | Heliophyte | Cold tolerant | Wet | Rich | Neutral |
| Plectranthus amboinicus | *Plecam* | Lamiaceae | Small | Herb | C3 | Heliophyte | Heat tolerant | Wet | Poor | Neutral |
| Rosmarinus officinalis | *Rosmof* | Lamiaceae | Small | Herb | C3 | Heliophyte | Generalist | Dry | Poor | Neutral |
| Aloe vera | *Aloeve* | Liliaceae | Small | Herb | C3 | Heliophyte | Heat tolerant | Dry | Rich | Neutral |
| Aspidistra elatior | *Aspiel* | Liliaceae | Mediate | Herb | CAM | Sciophyte | Cold tolerant | Wet | Poor | Acid |
| Chlorophytum comosum cv. medio-pictum | *Chlocm* | Liliaceae | Mediate | Herb | CAM | Sciophyte | Generalist | Wet | Rich | Neutral |
| Fagraea ceilanica | *Fagrce* | Loganiaceae | Large | Shrub | C3 | Heliophyte | Heat tolerant | Wet | Rich | Neutral |
| Calathea concinna 'Freddy' | *Calafr* | Marantaceae | Small | Herb | C3 | Sciophyte | Heat tolerant | Wet | Rich | Acid |
| Calathea elliptica | *Calavi* | Marantaceae | Small | Herb | C3 | Sciophyte | Generalist | Wet | Rich | Acid |
| Aglaia odorata | *Aglaod* | Meliaceae | Mediate | Shrub | C3 | Heliophyte | Heat tolerant | Wet | Poor | Acid |
| Ficus elastica | *Ficuel* | Moraceae | Mediate | Shrub | C3 | Heliophyte | Heat tolerant | Wet | Rich | Acid |
| Ficus pandurata | *Ficupa* | Moraceae | Large | Shrub | C3 | Heliophyte | Heat tolerant | Wet | Rich | Neutral |
| Jasminum sambac | *Jasmsa* | Oleaceae | Large | Shrub | C3 | Heliophyte | Heat tolerant | Wet | Rich | Acid |
| Cymbidium ensifolium var. rubrigemmun | *Cymben* | Orchidaceae | Small | Herb | CAM | Sciophyte | Heat tolerant | Wet | Rich | Acid |
| Cymbidium ensifolium | *Cymbes* | Orchidaceae | Small | Herb | CAM | Sciophyte | Generalist | Wet | Rich | Acid |
| Dendrobium nobile | *Dendno* | Orchidaceae | Small | Herb | CAM | Mesophyte | Heat tolerant | Wet | Poor | Acid |
| Phalaenopsis aphrodite | *Phalap* | Orchidaceae | Small | Herb | CAM | Sciophyte | Heat tolerant | Wet | Rich | Acid |
| Cyclamen persicum | *Cyclpe* | Primulaceae | Large | Herb | C3 | Heliophyte | Generalist | Wet | Poor | Acid |
| Rosa chinensis | *Rosach* | Rosaceae | Small | Shrub | C3 | Heliophyte | Generalist | Dry | Rich | Acid |
| Gardenia jasminoides 'Variegata' | *Gardja* | Rubiaceae | Small | Shrub | C3 | Mesophyte | Generalist | Wet | Rich | Acid |
| Ixora chinensis | *Ixorch* | Rubiaceae | Mediate | Shrub | C3 | Heliophyte | Heat tolerant | Dry | Poor | Acid |
| Daphne odora ‘Marginata’ | *Daphod* | Thymelaeaceae | Mediate | Shrub | C3 | Mesophyte | Heat tolerant | Wet | Rich | Acid |