Table S2. Information on seed dormancy for species of Rubiaceae recorded according to life form in each vegetation zone on earth. Plant names were checked using World of Plants Online. D, dark; g.h., greenhouse; Full, fully developed embryo; L, light; MD, morphological dormancy, MPD, morphophysiological dormancy; ND, nondormant; nur., nursery; PD, physiological dormancy, ud, underdeveloped embryo; -, no information; \*, embryo information based on genus instead of the listed species (see Table S2).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Rainforest trees** | Tribe | Embryo | Dorm-ancy | Temp.a | L/Da | References |
| *Aidia acuminata* | Gardenieae | spatulate\* | PD | nur.? | - | Jones, 1956 |
| *Aidia densiflora* | Gardenieae | spatulate\* | ND | nur. | - | Ng, 1992 |
| *Alibertia patinoi* | Cordiereae | spatulate-ud | MD | 30/25, 31 | L=D | Escobar, 2010; Escobar and Torres, 2013 |
| *Atractocarpus fitzalanii* | Gardenieae | spatulate | PD | nur. | - | RFK code 145 |
| *Atractocarpus sessilis* | Gardenieae | spatulate\* | PD | nur. | - | Goulding, 2001 |
| *Atractogyne gabonii* | Sherbournieae | spatulate\* | ND | nur.? | - | Miquel, 1987 |
| *Bobea myrtoides* | Guettardeae | spatulate\* | ND | - | - | RFK code 239 |
| *Bothriospora corymbosa* | Condamineeae | linear-full | ND | - | - | Maia et al., 2007 |
| *Calycophyllum* *spruceanum* | Calycophylleeae | spatulate\* | ND | - | - | Dávila & Aspajo, 2019 |
| *Canthiumera glabra* | Vanguerieae | spatulate | PD | nur. | - | Ng, 1992; Elliott et al., 1996 |
| *Coffea arabica* | Coffeeae | spatulate-ud | MD | 30 | - | Valio, 1976; Ellis et al., 1990; da Silva et al., 2004, 2008 |
| *Coffea canephora* | Coffeeae | spatulate-ud\* | MD | 24 | - |  Oryem-Origa, 1999; Santana- Buzzy et al., 2002 |
| *Coffea liberica* | Coffeeae | spatulate-ud | MD | 30 | - | Hong & Ellis, 1995; RFK code 1149 |
| *Corynanthe pachyceras* | Coptosapelteae | linear-ud\* | MD | nur.? | - | Mensbruge, 1966 |
| *Coutarea hexandra* | Coussareeae | spatulate | ND | nur. | - | Lorenzi, 1998 |
| *Diplospora malaccense*  | Coffeeae | spatulate-ud\* | MD | nur.  |  - | Ng, 1992 |
| *Eumachia frutescens* | Palicoureeae | spatulate-ud | MPD | nur. | - | Goulding, 2001; RFK code 3169 |
| *Gardenia carinata* | Gardenieae | spatulate | ND | nur. | - | Ng, 1973 |
| *Gardenia ovularis* | Gardenieae | spatulate\* | PD | nur. | - | Goulding, 2001; Osunkoya & Swanborough, 2001; RFK code 284 |
| *Gardenia tubifera* | Gardenieae | spatulate | ND | nur. | - | Ng, 1980 |
| *Genipa americana* | Gardenieae | spatulate -ud | MD | 27, nur., 24-30, 35, 25, 30, room? | - | GGonzalez, 1991; Francis, 1993; Francis & Rodriguez, 1993; Carvalho et al., 1998; de Souza et al., 1999; Andrade et al., 2000; Vieira & Gusmao, 2006; Sautu et al., 2007; Queiroz et al., 2012 |
| *Genipa infudibuliformis* | Gardenieae | spatulate-ud\* | MD | nur. | - | Lorenzi, 1998 |
| *Gonzalagunia spicata*  | Guettardeae | spatulate-ud\* | MPD | room | - | Myster, 1997 |
| *Gonzalagunia stenostachya* | Guettardeae | spatulate-ud\* | MPD | room | - | Myster, 1997 |
| *Greenea corymbosa* | Greeneeae | linear-full\* | ND | nur. | - | Raich & Khoon, 1990 |
| *Guettarda speciosa* | Guettardeae | linear-full | ND | nur. | - | Ng, 1992; Liyagel, 2005 |
| *Guettardella tenuiflora* | Guettardeae | linear-full\* | PD | nur. | - | RFK Code 53 |
| *Isertia hypoleuca* | Isertieae | spatulate | PD | nur. | - | Lorenzi, 1998 |
| *Ixora lobbii* | Ixoreae | spatulate | PD | nur. | - | Ng, 1992 |
| *Ixora timorensis* | Ixoreae | spatulate\* | PD | nur. | - | RFK code 581 |
| *Lasianthus strigosus* | Lasiantheae | linear-full\* | PD | nur. | - | Goulding, 2001 |
| *Massularia acuminata* | Gardenieae | spatulate | ND | nur.? | - | Miquel, 1987 |
| *Mitragyna ciliata* | Naucleeae | spatulate\* | ND | nur.? | - | Mensbruge, 1966 |
| *Morinda citrifolia* | Morindeae | linear-full | PD | nur., 24-30 | - | Ng, 1978, 1992; Francis & Rodriguez, 1993; Nelson, 2005;Thusithana et al., 2021 |
| *Morinda elliptica* | Morindeae | linear-full\*  | PD | nur.  | - | Raich & Khoon, 1990 |
| *Morinda lucida* | Morindeae | linear-full\* | ND | nur.? | - | Mensbruge, 1966 |
| *Nauclea diderrichii* | Naucleeae | spatulate\* | PD | nur. | L | Swaine et al., 1997; Kyereh et al.,1999 |
| *Nauclea gilletii* | Naucleeae | spatulate\* | ND\* | nur.? | - | Mensbruge, 1966 |
| *Nauclea maingayi* | Naucleeae | spatulate\* | ND | nur. | - | Ng & Asri, 1979 |
| *Nauclea orientalis* | Naucleeae | spatulate | ND | - | - | Hearne, 1975; RFK code 256 |
| *Nauclea pobeguinii* | Naucleeae | spatulate\* | ND | nur.? | - | Mensbruge, 1966 |
| *Nauclea subdita* | Naucleeae | spatulate | ND | nur. | - | Ng & Asri, 1979 |
| *Neonauclea purpurea* | Naucleeae | spatulate\* | PD | nur. | - | Bisht et al., no date; Lugo & Figueroa, no date |
| *Ochreinauclea maingayi* | Naucleeae | spatulate | PD | nur. | - | Ng, 1992 |
| *Ochreinauclea missionis* | Naucleeae | spatulate\* | ND | nur. | - | Jose et al., 2002 |
| *Oxyanthus racemosus* | Sherbournieae | spatulate\*  | ND | nur.? | - | Mensbruge, 1966 |
| *Oxyanthus unilocularis* | Sherbournieae | spatulate | ND | nur.? |  | Mensbruge, 1966 |
| *Oxyceros longiflorus* | Gardenieae | spatulate-ud | MD | nur. | - | Ng, 1992 |
| *Palicourea riparia* | Palicoureeae | spatulate-ud\* | MPD | room | - | Myster, 1997 |
| *Paralasianthus lowianus* | Paederieae | linear-full | PD | nur. | - | Ng, 1992 |
| *Porterandia anisophylla* | Gardenieae | spatulate | PD | nur. | - | Raich & Khoon, 1990; Ng, 1992 |
| *Porterandia scortechinii* | Gardenieae | spatulate\* | PD | nur. | - | Ng, 1978 |
| *Posoqueria acutifolia* | Posoquerieae | spatulate\* | PD | nur. | - | Lorenzi, 1998 |
| *Psychotria dallachiana* | Psychotrieae | spatulate-ud\* | MPD | - | - | RFK code 3176 |
| *Psychotria flava* | Psychotrieae | spatulate-ud\* | MPD | g.h. | - | Paz et al., 1999 |
| *Psychotria papantlensis* | Psychotrieae | spatulate-ud | MPD | g.h. | - | Paz et al., 1999 |
| *Psychotria venosa* | Psychotrieae | spatulate-ud\* | MD | nur.? | - | Mensbruge, 1966 |
| *Psydrax arnoldianus* | Vanguerieae | spatulate\* | ND | nur.? | - | Mensbruge, 1966 |
| *Psydrax laxiflorens* | Vanguerieae | spatulate | PD | nur. | - | RFK code 1069 |
| *Psydrax subcordatus* | Vanguerieae | spatulate | ND | nur.? | - | Mensbruge, 1966 |
| *Randia audasii* | Gardenieae  | spatulate\* | PD | - | - | RFK code 887 |
| *Randia dumetorum* | Gardenieae | spatulate\* | PD  | nur.? | - | Gupta, 2003 |
| *Ridsdalea shoemannii* | Gardenieae | spatulate | PD | nur. | - | Ng, 1992 |
| *Rothmannia hispida* | Gardenieae | spatulate\* | ND | nur.? | - | Mensbruge, 1966 |
| *Rothmannia urcelliformis* | Gardenieae | spatulate\* | ND | nur.? | - | Mensbruge, 1966 |
| *Stenostemon urbanianum* | Guettardeae | linear-full\* | PD  | nur. | - | Goulding, 2001; RFK code 53 |
| *Urophyllum glabrum* | Urophylleae | spatulate\* | PD | nur. | - | Raich & Khoon, 1990 |
| *Warszewiczia coccinea* | Rondeletieae | linear-ud | MPD | nur. | - | Lorenzi, 1998 |
| *Wendlandia urceolata* | Augusteae | spatulate\* | PD | - | - | RFK code 1052 |
| **Rainforest shrubs**  |  |  |  |  |  |  |
| *Amaracarpus* *nematopodus* | Psychotrieae | spatulate-ud | MPD | nur. | - | RFK code 3472 |
| *Atractocarpus hirtus* | Gardenieae | spatulate | PD | nur. | - | RFK code 3180 |
| *Atractocarpus merikin* | Gardenieae | spatulate\* | PD | nur. | - | RFK code 3164 |
| *Chassalia javanica* | Psychotrieae | spatulate-ud\* | MD  | nur. | - | Purwantoro, 2017 |
| *Cubanola domingensis* | Chiococceae | spatulate? | PD | g.h. | - | http://medusasgarden.blotspot.com/2011/06/tree-lily.html |
| *Exallage auricularia* | Spermacoceae | spatulate-ud | MD | room | - | Tan & Corlett, 1987 |
| *Gardenia actinocarpa* | Gardenieae | spatulate | PD | nur. | - | Osunkoya & Swanborough, 2001 |
| *Guettardella ovatifolia* | Guettardeae | linear-full\* | PD | nur. | - | RFK 3167 |
| *Hedyotis fruticosa* | Spermacoceae | linear-full | PD | room | - | Tan & Corlett, 1987 Raju & Krishna, 2018;  |
| *Hedyotis pruinosa* | Spermacoceae | linear-full\* | PD | 35-40 | L | Corbineau & Côme, 1980/81 |
| *Ixora baileyana* | Ixoreae | spatulate | PD | nur. | - | RFK code 3170 |
| *Ixora biflora* | Ixoreae | spatulate\* | PD | - | - | RFK code 3510 |
| *Ixora oreogena* | Ixoreae | spatulate | PD | nur. | - | RFK code 66 |
| *Lasianthus chlorocarpus* | Lasiantheae | linear-full | PD | nur. | - | RFK code 3171 |
| *Morinda bracteata* | Morindeae | linear-full | ND | nur. | - | RFK code 3373 |
| *Mussaenda frondosa* | Mussaendeae | spatulate-ud\* | MPD | nur. | - | Bhat et al., 2001 |
| *Ophiorrhiza australiana* | Ophiorrhizeae | spatulate  | PD | nur. | - | RFK code 3173 |
| *Ophiorrhiza tomentosa* | Ophiorrhizeae | spatulate\* | ND | forest | - | Tan and Rao, 1981 |
| *Pagamea duckei* | Gaertnereae | linear-ud | MD | room | L=D | Macedo, 1977 |
| *Palicourea crocea* | Palicoureeae | spatulate-ud\* | MPD | 24-30, field | - | Lebrón, 1979: Francis & Rodriguez, 1993  |
| *Palicourea nitidella* | Palicoureeae | spatulate-ud\* | MD | room | L>D | Macedo, 1977 |
| *Pavetta australiensis* | Pavetteae | spatulate\* | PD | nur. | - | RKF code 3127 |
| *Psychotria submontana* | Psychotrieae | spatulate-ud | MPD | nur. | - | RFK code 3268 |
| *Psychotria tenuivervis* | Psychotrieae | spatulate-ud\* | MPD | 25 | - | Ramos et al., 2007 |
| *Psydrax montigenus* | Vanguerieae | spatulate | PD | nur. | - | RFK code 725 |
| *Randia tuberculosa* | Gardenieae | spatulate | PD | nur. | - | RFK code 3181 |
| *Tarenna dallachiana* | Pavetteae | spatulate | PD | nur. | - | RFK code 1168 |
| *Timonius singularis*(epiphyte) | Guettardeae | linear-full | ND | nur. | - | RFK code 843 |
| *Timonius timon* | Guettardeae | linear-full | ND | nur. | - | RFK code 425 |
| *Triflorensia australia* | Pavetteae | spatulate-ud | MPD | nur. | - | RFK code 1090 |
| *Urophyllum hirsutum*  | Urophylleae | spatulate | ND  | 23-30 | L | Metcalfe, 1996 |
| *Urophyllum streptopodium* | Urophylleae | spatulate\* | ND  | 23-30 | L>D | Metcalfe, 1996 |
| *Wendlandia basistaminea* | Augusteae | spatulate\* | PD | - | - | RFK code 3182 |
| **Rainforest lianas**  |  |  |  |  |  |  |
| *Dimetia capitellata* | Spermacoceae | spatulate\* | ND | room | - | Tan & Corlett, 1987 |
| *Gynochthodes jasminoides* | Morindeae | spatulate-ud | MPD | nur. | - | RFK code 2050 |
| *Gynochthodes retropila* | Morindeae | spatulate-ud | MPD | nur. | - | RFK code 2506 |
| *Gynochthodies sessilis* | Morindeae | spatulate-ud | MPD | nur. | - | RFK code 2151 |
| *Gynochthodes umbellata* | Morindeae | spatulate-ud | MPD | nur. | - | RFK code 2024 |
| *Spermacoce capitata* | Spermacoceae | spatulate\* | ND | room | L=D | Macedo, 1977 |
| *Uncaria lanosa* | Naucleeae | spatulate | PD | nur. | - | RFK code 2240 |
| **Rainforest herbs** |  |  |  |  |  |  |
| *Mexotis latifolia* | Spermacoceae | linear-full\* | PD | room | - | Tan & Corlett, 1987 |
| *Mitracarpus histus* | Spermacoceae | spatulate | PD | nur. | - | Marks, 1983 |
| *Oldenlandia herbacea* | Spermacoceae | linear-full | PD | room | - | Tan & Corlett, 1987 |
| *Oldenlandia pumila* | Spermacoceae | linear-full\* | PD | room | - | Tan & Corlett, 1987 |
| *Ophiorrhiza mungos* | Ophiorrhizeae | spatulate | ND | forest | - | Dintu et al., 2015 |
| *Otomeria guineensis* | Knoxieae | spatulate-ud\* | MPD | nur. | - | Marks, 1983 |
| *Scleromitrion diffusum* | Spermacoceae | linear-full\* | PD | room | - | Tan & Corlett, 1987 |
| *Spermacoce ocymoides* | Spermacoceae | spatulate | PD | 27, 30/20, nur. | L=D | Marks, 1983; Marks & Nwachuku, 1986; Chauhan & Johnson 2008 |
| **Tropical montane****trees** |  |  |  |  |  |  |
| *Bobea gaudichaudii* | Guettardeae | linear-full\* | PD | g.h., 13-19 | - | Yoshinaga, unpubl.; Lilleeng- Rosenberger, 2005 |
| *Bobea sandwicensis* | Guettardeae | linear-full\* | PD | nur. | - | Stratton et al., 1998 |
| *Bobea timonioides* | Guettardeae | linear-full\* | PD | nur. | - | www.ctahr.hawaii.edu/hawnprop/plants/bob-timo.htm |
| *Cinchona officinalis*  | Cinchoneae | spatulate-ud | MPD | - | - | Jiménez et al., 2018; Cabeza et al., 2018  |
| *Cinchona pubescens*  | Cinchoneae | spatulate-ud\* | MPD | room? | - | Campos-Ruiz et al., 2016 |
| *Gardenia brighamii* | Gardenieae | spatulate | PD | nur., 30/15 | L>D | Stratton et al., 1998; Culliney& Koebele, 1999; Baskin et al., unpubl. |
| *Gynochthodes trimera* | Morindeae | spatulate-ud\* | MPD  | g.h. | - | Lilleeng-Rosenberger, 2005 |
| *Psychotria hathewayi* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Culliney & Koebele, 1999 |
| *Psychotria hawaiiensis* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Culliney & Koebele, 1999 |
| *Psychotria kaduana* | Psychotrieae | spatulate-ud\* | MPD | 13-19 | - | Yoshinaga, unpubl. |
| *Psychotria mariniana* | Psychotrieae | spatulate-ud | MPD | 13-19, 25/15 | - | Baskin et al., unpubl.; Yoshinaga, unpubl. |
| **Tropical montane shrubs** |  |  |  |  |  |  |
| *Coprosma cymosa* | Anthospermeae | spatulate | PD | 20/10 | - | Baskin et al., unpubl. |
| *Coprosma ernodeoides* | Anthospermeae | spatulate | PD | 20/10 | - | Baskin et al., 2021 |
| *Coprosma ochrocea* | Anthospermeae | spatulate | PD | 20/10 | - | Baskin et al., 2021 |
| *Coprosma**rhynchocarpa* | Anthospermeae | spatulate | PD | 20/10 | - | Baskin et al., 2021 |
| *Faramea* sp. | Coussareeae | spatulate\* | PD | nur. | - | Samper, 1992 |
| *Faramea affinis* | Coussareeae | spatulate\* | PD | field | - | Restrepo & Vargas, 1999 |
| *Gaertnera walkeri*  | Gaertnerieae | linear-ud | MPD | 25 | - | Athugala et al., 2018 |
| *Kadua acuminata* | Spermacoceae | linear-ud\* | MPD | 13-19 | - | Yoshinaga, unpubl. |
| *Kadua affinis* | Spermacoceae | linear-ud | MPD | 13-19, 25/15 | - | Baskin et al., unpubl.; Yoshinaga, unpubl. |
| *Kadua centranthoides* | Spermacoceae | linear-ud\* | MPD | 13-19 | - | Yoshinaga, unpubl |
| *Luculia gratissima* | Luculieae | spatulate-ud\* | MPD | 22-25 | - | http://www.sunshine-seeds.de/Luculia-gratissima-rosea-34354p.html?language=en |
| *Palicourea pyramidalis* | Palicoureeae | spatulate-ud\* | MPD | field | - | Restrepo & Vargas, 1999 |
| *Psychotria hobdyi* | Psychotrieae | spatulate-ud\* | MPD | g.h. | - | Lilleeng-Rosenberger, 2005 |
| *Psychotria suber* | Psychotrieae | spatulate-ud\* | MD | garden | - | PlantZAfrica.com, Psychotria suber |
| *Psydrax odoratus* | Vanguerieae | spatulate | PD | 25/15, g.h. | - | Criley, 1998; Culliney & Koebele, 1999; Lilleeng- Rosenberger, 2005; Baskin et al., unpubl. |
| **Tropical alpine****shrubs** |  |  |  |  |  |  |
| *Coprosma montana* | Anthospermeae | spatulate | PD | 20/10, 25/15 | - | Baskin et al., 2021 |
| **Semievergreen rainforest (RF) trees** |  |  |  |  |  |  |
| *Adina cordifolia* | Naucleeae | spatulate\* | PD | nur. | - | Beniwal et al., 1990; Prasad & Kandya, 1992 |
| *Aidia cochinchinensis* | Gardenieae | spatulate\* | PD | 25 | - | Lan et al., 2018 |
| *Aidia cowleyi* | Gardenieae | spatulate | PD | nur. | - | RFK code 1120 |
| *Aidia yunnanensis* | Gardenieae | spatulate\* | PD | nur. | - | Elliott et al., pers. comm. |
| *Alseis blackiana* | Condamineeae | spatulate\* | PD | nur., 28-34 | L | Garwood, 1983; Pearson et al., 2002; Sautu et al., 2007 |
| *Alseis floribunda* | Condamineeae | spatulate\* | PD | nur. | - | Lorenzi, 1998 |
| *Amaioua glomerulata* | Cordiereae | spatulate-ud\* | MPD | nur | - | Sautu et al., 2007 |
| *Calycophyllum candidissimum* | Calycophylleae | spatulate\* | ND | nur., 27.5 | L  | Sautu et al., 2007; Gutiérrez et al., 2020 |
| *Canthium coromandelicum*  | Vanguerieae | spatulate\* | PD | nur. | - | Elliott et al., pers. comm |
| *Catunaregam spinosa* | Gardenieae | spatulate | PD | nur.?, 30 | - | Msanga, 1998; Thapliyal & Phartyal, 2005; Wong et al., 2018 |
| *Ceriscoides sessiliflora* | Gardenieae | spatulate\* | PD | nur. | - | Elliott et al., pers. comm. |
| *Cerisoides turgida* | Gardenieae | spatulate\* | PD | 30 | - | Thapliyal & Phartyal, 2005 |
| *Coussarea suaveolens* | Coussareeae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983 |
| *Cyclophyllum multiflorum* | Vanguerieae | linear-full\* | PD | - | - | RFK code 1163 |
| *Faramea occidentalis* | Coussareeae | spatulate\* | PD | nur., 24-30 | - | Garwood, 1983; Francis & Rodriguez, 1993; Sautu et al., 2007 |
| *Gardenia obtusifolia* | Gardenieae | spatulate\* | PD | nur. | - | Elliott et al., 1996 |
| *Gardenia megasperma* | Gardenieae | spatulate\* | ND | 30/20 | - | Ashwath et al., 1994 |
| *Gardenia scabrella* | Gardenieae | spatulate\* | PD | - | - | RFK code 892 |
| *Gonzalagunia hirsuta* | Guettardeae | spatulate-ud\* | MPD | 24-30 | - | Francis & Rodriguez, 1993 |
| *Guettarda foliacea* | Guettardeae | linear-full\* | PD | nur. | - | Sautu et al., 2007 |
| *Guettarda viburnoides* | Guettardeae | linear-full\* | PD | nur. | - | Lorenzi, 1998 |
| *Guettardella putaminosa* | Guettardeae | linear-full\* | PD | - | - | RFK code 3168 |
| *Hymenodictyon orixense* | Hymenodictyeae | spatulate | ND | 30 | - | TThapliyal & Phartyal, 2005 |
| *Ixora gardneriana* | Ixoreae | spatulate\* | PD | nur. | - | Lorenzi, 1998 |
| *Ladenbergia oblongifolia* | Cinchoneae | spatulate\* | ND | nur.? | - | Quispe, 2019 |
| *Mitragyna hirsuta* | Spermacoceae | spatulate | PD | nur. | - | Elliott et al., 1996 |
| *Mitragyna parvifolia* | Spermacoceae | spatulate | PD | 30 | - | Thapliyal & Phartyal, 2005 |
| *Mussaenda macrophylla* | Mussaendeae | spatulate-ud\* | MPD | 20 | - | Lan et al, 2018 |
| *Neolamarckia cadamba* | Naucleeae | spatulate | ND | 35, nur. | - | Marrero, 1949; Grijpma, 1967; Prasad & Kandya, 1992; Joker, 2000; Welman, 2011; RFK code 779 |
| *Pavetta brownii* | Pavetteae | spatulate\* | PD | 30/20 | - | Ashwath et al., 1994 |
| *Pittoniotis tricantha* | Guettardeae | linear-full\* | PD | nur. | - | Sautu et al., 2007 |
| *Posoqueria latifolia* | Posoquerieae  | spatulate\* | PD | nur. | - | Sautu et al., 2007 |
| *Psydrax banksii* | Vanguerieae | spatulate\* | PD | - | - | RFK code 857 |
| *Psydrax graciliflorus* | Vanguerieae | spatulate\* | PD | - | - | RFK code 760 |
| *Randia armata* | Gardenieae | spatulate\* | ND | nur. | - | Garwood, 1983; Paulus, 2005 |
| *Simira sampaioana* | Condamineeae | spatulate\*  | ND | nur. | - | Lorenzi, 1998 |
| *Stenostomum resinosum* | Guettardeae | linear-full\* | PD  | nur. | - | Marrero, 1949 |
| *Tarennoidea wallichii* | Gardenieae | spatulate | PD | nur. | - | Elliott et al., pers. comm. |
| *Tocoyena pittieri* | Gardenieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983 |
| *Wendlandia heynei* | Augusteae | spatulate\* | PD | - | - | Dhiman et al., 2022 |
| **Semievergreen RF shrubs**  |  |  |  |  |  |  |
| *Aidia oxyodonta*  | Gardenieae | spatulate\* | PD | 30 | - | Lan et al., 2018 |
| *Aidia racemosa*  | Gardenieae | spatulate\* | PD | nur. | - | RFK code 324 |
| *Bertiera guianensis* | Bertiereae | spatulate | PD | nur. | - | Garwood, 1983  |
| *Brachytome hirtellata* | Gardenieae | spatulate-ud\* | MPD | 25 | - | Lan et al., 2018 |
| *Carapichea ipecacuanha* | Cordiereae | spatulate\* | PD | nur. | - | Garwood, 1983  |
| *Chassalia curviflora* | Psychotrieae | spatulate-ud\* | MPD | 30 | - | Lan et al., 2018 |
| *Hamelia axillaris* | Hamelieae | spatulate\* | ND | nur. | - | Garwood, 1983  |
| *Hamelia patens* | Hamelieae | spatulate | ND | nur. | - | Garwood, 1983  |
| *Larsenaikia ochreata* | Gardenieae | spatulate\* | ND | - | - | RFK code 649 |
| *Mussaenda sanderiana* | Mussaendeae | spatulate-ud\* | MD | 25 | - | Lan et al., 2018 |
| *Palicourea acuminata* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983  |
| *Palicourea cyanococca* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983 |
| *Palicourea deflexa* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983  |
| *Palicourea guianensis* | Paulicoureeae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983  |
| *Palicourea hoffmannseggiana* | Psychotrieae | spatulate-ud | MPD | 25, 26 | L=D | Macedo, 1977; Garwood, 1983; Sassaki et al., 1999; Araujo & Cardoso, 2007  |
| *Pavetta granitica* | Pavetteae | spatulate\* | PD | nur. | - | RKF code 3374 |
| *Pavetta kimberleyana* | Pavetteae | spatulate\* | PD | - | - | RFK code 3515 |
|  |  |  |  |  |  |  |
| *Psychotria calocarpa* | Psychotrieae | spatulate-ud\* | MPD | 25 | - | Lan et al., 2018; Terry Fung, pers. comm. |
| *Psychotria chagrensis* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983  |
| *Psychotria daphnoides* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | RFK code 3018 |
| *Psychotria fitzalanii* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | RFK code 1092 |
| *Psychotria grandis* | Psychotrieae | spatulate-ud | MPD | nur. | - | Garwood, 1983; Sanchez et al., 2009  |
| *Psychotria horizontalis* | Psychotrieae | spatulate-ud | MPD | nur. | - | Garwood, 1983, 1986 |
| *Psychotria leiocarpa* | Psychotrieae | spatulate-ud\* | MPD | 25 | L=D | Rosa & Ferreira, 2001 |
| *Psychotria limonensis* | Psychotrieae | spatulate-ud\* | MPD | nur., g.h. | - | Garwood, 1983; Paz et al., 1999  |
| *Psychotria loniceroides* | Psychotrieae | spatulate-ud | MPD | nur. | - | RFK code 3177 |
| *Psychotria marginata* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983  |
| *Psychotria poliostemma* | Psychotrieae | spatulate-ud | MPD | - | - | RFK code 3179 |
| *Psychotria racemosa* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983  |
| *Psydrax lamprophyllus* | Vanguerieae | spatulate\* | ND | - | - | RFK code 313 |
| *Ronabea emetica* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Garwood, 1983  |
| *Uncaria macrophylla* | Naucleeae | spatulate | PD | 25, 30 | - | Lan et al., 2018 |
| *Uncaria scandens*  | Naucleeae | spatulate | PD  | 20, 25 | - | Lan et al., 2018 |
| **Semievergreen RF herbs**  |  |  |  |  |  |  |
| *Ophiorrhiza caudata* | Ophiorrizeae | spatulate\* | ND | field | - | Theresa et al., 2021 |
| *Ophiorrhiza macrocarpa* | Ophiorrizeae | spatulate\* | ND | field | - | Wu et al., 2018 |
| **Tropical dry deciduous forest trees**  |  |  |  |  |  |  |
| *Adina pendula* | Naucleeae | spatulate\* | PD | out-doors | - | Athaya, 1985, 1990 |
| *Ceriscoides turgida* | Gardenieae | spatulate\* | PD | nur. | - | Troup, 1921; Prasad & Kandya, 1992 |
| *Erithalis fruticosa* | Chiococceae | spatulate\* | PD | 30 | - | Castilleja, 1991 |
| *Exostema caribaeum* | Chiococceae | spatulate-ud\* | MD | 30 | - | Castilleja, 1991 |
| *Gardenia latifolia* | Gardenieae | spatulate\* | PD | nur. | - | Prasad & Kandya, 1992 |
| *Guettarda odorata* | Guettardeae | linear-full\* | PD | nur. | - | Ray & Brown, 1995 |
| *Hintonia latiflora* | Chiococceae | spatulate\* | PD | 30/25 | - | Soriano et al., 2011 |
| *Hymenodictyon orixense* | Hymenodictyleae | spatulate | ND | nur. |  | Troup, 1921; Prasad & Kandya, 1992 |
| **Tropical dry** **deciduous forests****shrubs**  |  |  |  |  |  |  |
| *Simira gardneriana* | Condamineeae | spatulate | ND? | 25 | - | Oliveira et al., 2019 |
| *Tocoyena bullata* | Gardenieae | spatulate-ud\* | MPD | nur. | - | Zamith & Scarano, 2004 |
| **Tropical dry** **deciduous forest****herbs** |  |  |  |  |  |  |
| *Mitracarpus hirtus* | Spermacoceae | spatulate | ND | 25 | L | Felippe & Polo, 1983 |
| *Spermacoce densiflora*  | Spermacoceae | spatulate\* | ND | 30/20 | L>D | Martins et al., 2010; Castilho, 2020  |
| **Tropical savanna****trees** |  |  |  |  |  |  |
| *Alibertia edulis* | Cordiereae | Spatulate-ud\* | MD | 30, 35 | - | Rizzini, 1976; Bilio et al., 2018 |
| *Breonadia salicina* | Naucleeae | spatulate\*  | ND | garden | - | PlantZAfrica.com, SA tree No. 684 |
| *Canthium armatum* | Vanguerieae | spatulate\* | ND | garden- |  | PlantZAfrica.com, SA tree No. 715 |
| *Coussarea hydrangeifolia* | Coussareeae | spatulate-ud\* | MPD | nur. | - | Lorenzi, 1998 |
| *Ferdinandusa elliptica* | Condamineeae | spatulate\* | PD | 35 | - | Rizzini, 1976 |
| *Keetia foetida* | Vanguerieae | spatulate\* | PD | 31/19 | - | Prins & Maghembe, 1994 |
| *Nauclea latifolia* | Naucleeae | spatulate\* | ND | 20, 30 | - | Garcia, 1982 |
| *Palicourea rigida* | Palicoureeae | spatulate-ud | MPD | 30, 25-28 | - | Garcia-Nunez et al.,2001; Salazar et al., 2011; Sampaio et al., 2007; Fava & Albuquerque, 2013 |
| *Rudgea viburnoides* | Palicoureeae | spatulate-ud | MPD | nur. | - | Lorenzi, 1998 |
| **Tropical savanna****shrubs** |  |  |  |  |  |  |
| *Alberta magna* | Alberteae | spatulate-ud | MPD | garden | - | PlantZAfrica.com, SA Tree No. 701 |
| *Coddia rudis* | Gardenieae | spatulate\* | PD? | garden | - | PlantZAfrica.com, SA Tree No. 689.1 |
| *Cordiera sessilis* | Cordiereae | spatulate | PD | 25, 35 | - | Rizzini, 1976; Lorenzi, 1998; Salomâo & Santos, 2021 |
| *Gardenia ternifolia* | Gardenieae | spatulate\* | PD | nur.? | - | Msanga, 1998 |
| *Hyperacanthus amoenus* | Ixoreae | spatulate\* | PD | garden | - | PlantZAfrica.com, SA Tree No. 690 |
| *Kraussia floribunda* | Octotropideae | spatulate-ud\* | MPD? | garden | - | PlantZAfrica.com, SA Tree No. 700.1 |
| *Mitriostigma axillare* | Sherbournieae | spatulate\* | PD | garden | - | PlantZAfrica.com, SA Tree No. 689.2 |
| *Oxyanthus pyriformis* | Sherbournieae | spatulate\* | PD? | garden | - | PlantZAfrica.com, SA Tree No. 696.2 |
| *Palicourea marcgravii* | Palicuoreeae | spatulate-ud\* | MD | 26 | - | Araujo & Cardoso, 2007 |
| *Pavetta cooperi* | Pavetteae | spatulate\* | PD | garden | - | PlantZAfrica.com, SA Tree No. 719 |
| *Pavetta revoluta* | Pavetteae | spatulate\* | PD | garden | - | PlantZAfrica.com, SA Tree No. 720 |
| *Psychotria sessilis* | Psychotrieae | spatulate-ud\* | MPD | 26 | L>D | Araujo & Cardoso, 2006 |
| *Spermacoce latifolia* | Spermacocoeae | spatulate\* | PD | 25 | L>D | Parreira et al., 2011; Gallon et al., 2018; Valente et al., 2019 |
| *Tocoyena formosa* | Gardenieae | spatulate-ud\* | MD | 30 | - | Bonamigo et al., 2019 |
| *Vangueria infausta* | Vanguerieae | spatulate\* | PD | nur.? 24,31/19 | - | Tietema et al., 1992; Msanga & Kalaghe, 1993; Prins & Maghembe, 1994; Msanga, 1998 |
| **Hot desert****herbs** |  |  |  |  |  |  |
| *Plocama pendula* | Putorieae | spatulate | ND | 23 | D>L | Pita, 1996 |
| *Rubia tinctorum* | Rubieae | spatulate | PD | 25 | - | Farhoudi et al., 2007; Sadeghi et al., 2009 |
| *Spermacoce**articularis* | Spermacoceae | spatulate\* | PD | 26 | L>D | Kasera & Sen, 1987 |
| **Mediterranean** **shrubs**  |  |  |  |  |  |  |
| *Anthospermum**aethiopicum*  | Anthospermeae | spatulate\* | PD | room | - | Levyns, 1935 |
| *Rubia fruticosa* | Rubieae | spatulate\* | PD | g.h. | - | Pérez-Méndez et al., 2018 |
| *Rubia peregrina* | Rubieae | spatulate | PD | winter |  - | Traveset et al., 2001 |
| **Mediterranean** **herbs** |  |  |  |  |  |  |
| *Asperula conferta* | Rubieae | spatulate\* | PD | - | - | Gibson-Roy et al., 2007 |
| *Asperula scoparia* | Rubieae | spatulate\* | PD | - | - | Gibson-Roy et al., 2007 |
| *Cynanchica* *daphneola* | Rubieae | spatulate\* | PD | 10, 15 | - | Gücel & Seçmen, 2009 |
| *Galium tricornutum* | Rubieae | spatulate\* | PD | 13/17, 16-20 | - | Washitani & Masuda, 1990; Masuda & Washitnai, 1992; Chauhan et al., 2006 |
| **Temperate** **broad-leaved** **evergreen****trees** |  |  |  |  |  |  |
| *Coprosma oliveri* | Anthospermeae | spatulate\* | PD | 15 | - | Cuevas & Figueroa, 2007 |
| *Coprosma pyrifolia* | Anthospermeae | spatulate\* | PD | 15 | - | Cuevas & Figueroa, 2007 |
| *Diplospora dubia* | Coffeeae | spatulate-ud\* | MPD | 25. 30 nur. | - | Lan et al., 2018; Terry Fung, pers. comm. |
| **Temperate** **broad-leaved** **evergreen****shrubs**  |  |  |  |  |  |  |
| *Coprosma crassifolia* | Anthospermeae | spatulate\* | PD | winter | L>D | Burrows, 1999 |
| *Coprosma* *foetidissima* | Anthospermeae | spatulate\* | PD | winter | L | Burrows, 1996a |
| *Coprosma lucida* | Anthospermeae | spatulate | PD | autumn |  L>D | Burrows, 1993,1996b, 1997b |
| *Coprosma repens* | Anthospermeae | spatulate\* | PD | autumn | - | Burrows, 1999 |
| *Coprosma rhamnoides* | Anthospermeae | spatulate\* | PD | winter | L>D | Burrows, 1999 |
| *Coprosma robusta* | Anthospermeae | spatulate | PD  | 20, autumn |  L>D | Burrows, 1995, 1997a, b; Mackay et al., 2002 |
| *Coprosma tenuicaulis* | Anthospermeae | spatulate\* | PD | winter | L>D | Burrows, 1999 |
| *Coprosma virescens* | Anthospermeae | spatulate\* | PD | winter | L>D | Burrows, 1999 |
| *Gardenia jasminoides* | Gardenieae | spatulate | ND | 25, nur. | - | Goo, 1976; Terry Fung, pers. comm. |
| *Guettardella chinensis* | Guettardeae | linear-full | PD | Nur. | - | Terry Fung, pers. comm. |
| *Lasianthus curtisii* | Lasiatheae | linear-full\* | PD | nur. | - | Terry Fung, pers. comm. |
| *Lasianthus hirsutus* | Lasiantheae | linear-full | PD | nur. | - | Terry Fung, pers. comm. |
| *Psychotria asiatica* | Psychotrieae | spatulate-ud\* | MD | 25/10 | - | Chen et al., 2002 |
| *Psychotria tucheri* | Psychotrieae | spatulate-ud\* | MPD | nur. | - | Terry Fung, pers. comm. |
| *Spermadictyon* *suaveolens* | Paederieae | spatulate\* | PD | summer | - | Bahuguna & Lal, 1997 |
| **Temperate** **broad-leaved****evergreen****vines**  |  |  |  |  |  |  |
| *Psychotria serpens* | Psychotrieae | spatulate-ud\* | MD | 25/10, nur. | - | Chen et al., 2002**;** Terry Fung, pers. comm. |
| **Temperate** **Broad-leaved****evergreen****herbs** |  |  |  |  |  |  |
| *Galium**hypocarpium* | Rubieae | spatulate \* | PD | 20/10 | - | Figueroa et al., 1996 |
| *Nertera granadensis* | Anthospermeae | spatulate | ND | 20/10 | - | Figueroa et al., 1996; Figueroa & Armesto, 2001 |
| *Oldenlandia* *salzmannii* | Spermacoceae | linear-full\* | PD  | 20/10 | - | Figueroa et al., 1996; Figueroa, 2003 |
| *Paederia foetida* | Paederieae | spatulate | PD | 16-32 | - | Washitani & Masuda, 1990 |
| *Rubia argyi* | Rubieae | spatulate\* | PD | 8-20 | - | Washitani & Masuda, 1990 |
| **Temperate****deciduous****shrubs** |  |  |  |  |  |  |
| *Cephalanthus* *occidentalis* | Naucleeae | spatulate | ND | - | - | Young & Young, 1992 |
| **Temperate****deciduous****herbs**  |  |  |  |  |  |  |
| *Mitchella repens* | Mitchelleae | spatulate-ud | MPD | 21 | - | Brinkman & Erdmann, 1974 |
| *Galium cracoviense* | Rubieae | spatulate\* | ND | 22 | L=D | Kołodziejek & Patykowski, 2015 |
| *Galium mollugo* | Rubieae | spatulate\* | PD | 25/10 | L>D | Roberts, 1986; Mersereau & DiTommaso, 2003 |
| *Hexasepalum teres* | Spermacoceae | spatulate | PD | 30/15 | L>D | Baskin & Baskin, 1988, unpubl.; Baird & Dickens, 1991 |
| *Houstonia caerulea* | Spermacoceae | linear-full | PD | g.h. | - | Chiari, 2004 |
| *Houstonia purpurea*var. *montana* | Spermacoceae | linear-full | ND | 24-29 | L>D | Farmer et al., 1979 |
|  |  |  |  |  |  |  |
| *Richardia scabra* | Spermacoceae | spatulate | ND | 30/20 | L | Biswas et al., 1975 |
| *Sherardia arvensis* | Spermacoceae | spatulate | PD | 25 | -  | Martinkova et al., 1997 |
| **Temperate****grassland****herbs** |  |  |  |  |  |  |
| *Galium aparine* | Rubieae | spatulate | PD | 10-17, 15/5 | L>D | van der Weide, 1993; Martinkova et al., 1997; Taylor, 1999; Jensen, 2004 |
| **Boreal** **herbs** |  |  |  |  |  |  |
| *Galium boreale* | Rubieae | spatulate\* | PD | 20 | - | <https://courses.washington.edu/esrm412/protocols/2007/GABO2.pdf>; Holzel & Otte, 2004  |
| *Galium verum* | Rubieae | spatulate\* | PD | 20/5 | - | Liu et al., 2011 |
| *Rubia cordifolia* | Rubieae | spatulate | PD | 20/5 | - | Gupta, 2003; Liu et al., 2011  |
| *Rubia membranacea* | Rubieae | spatulate\* | PD | 20/5 | - | Liu et al., 2011 |
| *Rubia ovatifolia* | Rubieae | spatulate\* | PD | - | - | Liu et al., 2011 |
| **Tundra** **herbs** |  |  |  |  |  |  |
| *Galium bifolium* | Rubieae | spatulate\* | PD | winterspring | - | Pelton, 1956 |
| **Mangrove** |  |  |  |  |  |  |
| *Scyphiphora* *hydrophyllacea* | Scyphiphoreae | spatulate | ND | g.h.? | - | Liyagel, 2005 |

a Temperature at which a high percentage of the seeds germinated.

**References for Table S2 (seed dormancy) of Rubiaceae**

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