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Functional diversity of reproductive traits increases across succession in the Atlantic forest

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Appendix 2 – Plant species and their families present in areas of different ages of Atlantic Forest, southern Brazil.

Families and Species	**Plot age (years)**
ANACARDIACEAE	
Tapirira guianensis Aubl.	15-25/30-50/80
ANNONACEAE	
Annona dolabripetala Raddi	30-50
Annona neosericea H.Reiner	15-25/80
Rollinia sylvatica (A.St.-Hil.) Mart.	80
Xylopia brasiliensis Spreng.	4-5/15-25/30-50
AQUIFOLIACEAE	
Ilex dumosa Reissek	15-25
Ilex integerrima (Vell.) Reissek	4-5/6-7/8-10/15-25
ARALIACEAE	
Dendropanax australis Fiaschi & Jung-Mend	15-25
ARECACEAE	
Astrocaryum aculeatissimum (Schott) Burret	30-50/80
Attalea dubia (Mart.) Burret	15-25/30-50
Bactris setosa Mart.	8-10/15-25/30-50/80
Euterpe edulis Mart.	6-7/15-25/30-50/80
Geonoma schottiana Mart.	80
Syagrus rommanzoffiana (Cham.) Glassman	2-3/4-5/6-7/8-10/15-25/30-50
APOCYNACEAE	
Tabernaemontana catharinensis A. DC.	30-50
ASTERACEAE	
Vernonanthura beyrichii (Less.) H.Rob.	2-3/4-5/6-7/8-10
Vernonantura puberula (Less.) H.Rob.	15-25
BIGNONIACEAE	
Cybistax antisyphilitica (Mart.) Mart.	2-3/4-5 /6-7
Jacaranda puberula Cham.	2-3/4-5/6-7/8-10/15-25/30-50/80
Tabebuia serratifolia (Vahl) G.Nichols	15-25/80
Tabebuia umbellata (Sond.) Sandwith	15-25
BOMBACACEAE	
Pseudobombax grandiflorum (Cav.) A. Robyns	15-25/30-50
BORAGINACEAE	
Cordia sellowiana Cham.	15-25
Cordia silvestris Fresen	15-25

Families and Species	Plot age (years)
BURSERACEAE	
Protium kleinii Cuatrec.	30-50/80
CAESALPINACEAE	
Bauhinia forficata Link	6-7/30-50
Copaifera trapezifolia Hayne	30-50
Senna multijuga (Rich.) H.S.Irwin & Barneby	2-3/6-7/8-10/15-25
CANELLACEAE	
Capsicodendrum dinisii (Schwacke) Occhioni	80
CANNABACEAE	
Trema micrantha (L.) Blume	6-7/80
CECROPIACEAE	
Cecropia glaziovii Snethl	2-3/4-5/6-7/8-10/15-25/30-50/80
Cecropia pachystachya Trécul	2-3/6-7/8-10/15-25
Coussapoa microcarpa (Schott) Rizzini	2-3/6-7/8-10/15-25/30-50/80
Pourouma guianensis Aubl.	30-50/80
CELASTRACEAE	
Maytenus alaternoides Reissek	15-25
Maytenus schumanniana Loes.	30-50/80
CHRYSOBALANACEAE	
Hirtella hebeclada Moric. ex DC.	30-50/80
CLENTHACEAE	
Clethra scabra Pers	15-25
CLUSIACEAE	
Calophyllum brasiliense Cambess	15-25
Garcinia gardneriana (Planch. & Triana) Zappi	15-25/30-50/80
ELAECARPACEAE	
Sloanea guianensis (Aubl.) Benth.	15-25/30-50/80
EUPHORBIACEAE	
Alchornea glandulosa Poepp. & Endl.	2-3/4-5/6-7/8-10/15-25/30-50/80
Alchornea triplinervia (Spreng.) Müll.Arg.	2-3/4-5/6-7/8-10/15-25/30-50/80
Hyeronima alchorneoides Allemão	2-3/6-7/8-10/15-25/30-50 /80
Maprounea brasiliensis A.St.-Hil.	30-50
Pachystroma longifolium (Ness) I.M.Johnst.	80
Pausandra morisiana (Casar) Radlk.	30-50/80
Pera glabrata (Schott) Poepp. ex Baill	2-3/4-5/6-7/8-10/15-25/30-50/80

Families and Species	Plot age (years)
Sapium glandulatum (Vell.) Pasc	2-3/4-5/6-7/8-10/15-25
Tetrorchidium rubrivenium Poepp.	8-10/15-25/30-50/80
FABACEAE	
Andira anthelmia (Vell.) Benth.	2-3/4-5/6-7/8-10/15-25/30-50
Dahlstedia pentaphylla (Taub.) Burkart	80
Dalbergia frutescens (Vell.) Britton	8-10
Erythrina speciosa Andrews	2-3/4-5
Machaerium hatschbachii Rudd	2-3/30-50
Machaerium nyctitans (Vell.) Benth	15-25
Myrocarpus frondosus Allemão	80
Plathymiscium floribundum Vogel	30-50
Pseudopiptadenia warmingii (Benth.) G.P. Lewis & M.P. Lima	6-7/15-25/30-50
Pterocarpus violaceus Vogel	2-3/6-7/30-50/80
Schizolobium parahyba (Vell.) Blake	2-3/15-25/80
LAMIACEAE	
Vitex polygama Cham.	30-50
LAURACEAE	
Aniba firmula (Ness & Mart.) Mez	15-25/30-50
Cryptocaria mandioccana Meisn.	30-50/80
Endlicheria paniculata (Spreng.) J.F. Macbr	30-50/80
Nectandra leucantha Ness	15-25/30-50/80
Nectandra membranacea (Sw.) Griseb	2-3/4-5/6-7/8-10/15-25/30-50/80
Nectandra oppositifolia Ness	4-5/6-7/8-10/15-25/30-50
Ocotea catharinensis Mez	80
Ocotea dispersa (Nees & Mart.) Mez	15-25/30-50
Ocotea nunesiana (Vattimo-Gil) J.B. Baitello	30-50/80
Ocotea odorifera (Vell.) Rohwer	15-25
Ocotea puberula (Rich.) Ness	2-3
Ocotea pulchella (Ness & Mart.) Mez	6-7/15-25
Ocotea teleiandra (Meisn.) Mez	15-25/30-50/80
LECYTHIDACEAE	
Cariniana estrellensis (Raddi) Kuntze	15-25/30-50/80
MAGNOLIACEAE	
Magnolia ovata (A.St.-Hil.) Spreng.	30-50/80

Families and Species	Plot age (years)
MALPIGHIACEAE	
Bunchosia pallescens Skottsb	6-7
MALVACEAE	
Triumfetta semitriloba Jacq.	2-3/6-7/8-10
MELASTOMATACEAE	
Clidemia biserrata DC.	4-5/8-10
Clidemia hirta (L.) D. Don	2-3/8-10
Clidemia urceolata DC.	2-3/8-10/15-25
Leandra australis (Cham.) Cogn	2-3/6-7/8-10
Leandra melastomoides Raddi	15-25/30-50
Miconia cabucu Hoehne	2-3/4-5/6-7/8-10/15-25/30-50/80
Miconia cinerascens Miq.	2-3/4-5/6-7/8-10/15-25/30-50/80
Miconia cinnamomifolia (DC.) Naudin	2-3/4-5/6-7/15-25
Miconia cubatanensis Hoehne	15-25
Miconia latecrenata (DC.) Naudin	2-3/8-10/15-25
Miconia tristis Spring	15-25
Ossaea amygdaloides (DC.) Triana	2-3/4-5/6-7/8-10
Ossaea confertiflora (DC.) Triana	4-5
Tibouchina pulchra Cogn.	2-3/4-5/6-7/8-10/15-25/30-50
Tibouchina trichopoda (DC.) Baill	2-3/4-5/6-7/8-10/15-25
MELIACEAE	
Cabralea canjerana (Vell.) Mart.	15-25/30-50/80
Cedrela fissilis Vell.	2-3/15-25
Guarea macrophylla Vahl	6-7/15-25/30-50/80
Trichilia lepidota Mart.	15-25/30-50/80
Trichilia pallens C.DC.	80
MIMOSACEAE	
Inga edulis Mart.	15-25/30-50/80
Inga marginata Willd.	30-50
Inga sellowiana Benth	4-5
Inga sessilis (Vell.) Mart.	4-5/15-25/30-50
Inga striata Benth	4-5
Mimosa bimucronata (DC.) Kuntze	4-5/6-7/8-10
Piptadenia paniculata Benth.	15-25

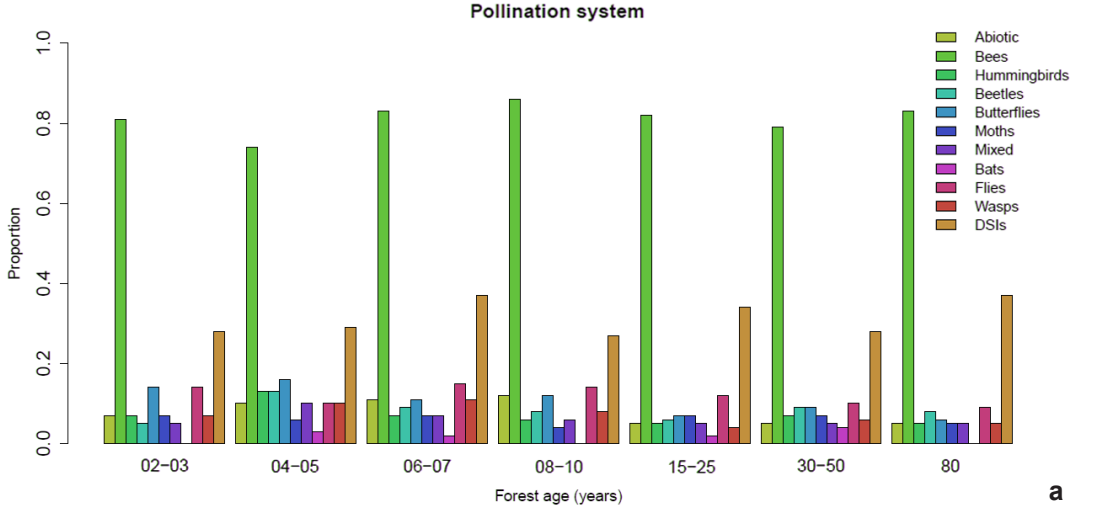
Families and Species	Plot age (years)
MONIMIACEAE	
Mollinedia schottiana (Spreng.) Perkins	15-25/30-50/80
MORACEAE	
Brosimum lactescens (S.Moore) C.C. Berg	30-50/80
Ficus adhatodifolia Schott ex Spreng.	2-3/15-25
Ficus enormis Mart. ex Miq.	6-7
Ficus insipida Willd	30-50/80
Sorocea bonplandii (Baill) W.C. Burger *et al*.	15-25/30-50/80
MYRISTICACEAE	
Virola bicuhyba (Schott ex Spreng.) Warb	2-3/15-25/30-50/80
MYRTACEAE	
Calycorectes australis D. Legrand	15-25/80
Calyptanthres eugenipsioides Cambess.	30-50
Calyptranthes grandifolia O. Berg	2-3/8-10/15-25/30-50/80
Calyptranthes lucida Mart. ex DC.	15-25/30-50/80
Calyptranthes strigipes O. Berg	30-50/80
Campomanesia neriifolia (O. Berg) Nied	80
Eugenia beaurepaireana (Kiaersk.) D. Legrand	30-50
Eugenia brevistyla D. Legrand	15-25/30-50/80
Eugenia burkartiana (D. Legrand) D. Legrand	15-25/30-50/80
Eugenia candolleana DC.	80
Eugenia cerasiflora Miq.	8-10/80
Eugenia cereja D. Legrand	80
Eugenia magnibracteolata Mattos & D. Legrand	80
Eugenia mosenii (Kausel) Sobral	30-50/80
Eugenia multicostata D. Legrand	80
Eugenia obovata O. Berg	80
Eugenia platysema O. Berg	15-25/30-50
Eugenia stigmatosa DC.	15-25/80
Eugenia subavenia O. Berg	30-50/80
Eugenia uniflora L.	80
Eugenia verticillata (Vell.) Angely	80
Gomidesia flagellaris D. Legrand	80
Gomidesia schaueriana O. Berg	80
Gomidesia spectabilis (DC.) O. Berg	15-25/30-50/80

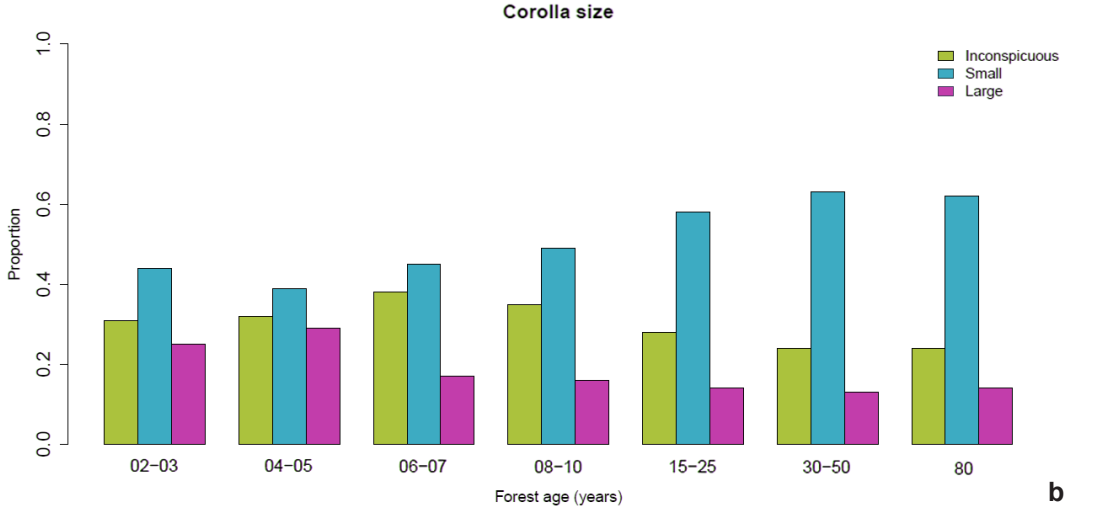
Families and Species	Plot age (years)
Marlierea obscura O. Berg	15-25/30-50/80
Marlierea riedeliana (O. Berg) D. Legrand	30-50
Marlierea silvatica (O. Berg) Kiaersk	6-7/8-10/15-25/30-50/80
Marlierea tomentosa Cambess	15-25/30-50/80
Myrcia bicarinata (O. Berg) D. Legrand	80
Myrcia dilucida G.M. Barroso	30-50
Myrcia glabra (O. Berg) D. Legrand	15-25/30-50
Myrcia multiflora (Lam.) DC.	8-10/15-25
Myrcia pubipetala Miq.	30-50/80
Myrcia racemosa (O. Berg) Kiaersk	15-25/30-50
Myrcia richardiana (O. Berg) Kiaersk	8-10/80
Myrcia splendens (Sw.) DC.	15-25/30-50/80
Myrciaria floribunda (H.West ex Willd.) O. Berg	15-25/30-50/80
Neomitranthes glomerata (D. Legrand) D. Legrand	80
Plinia edulis (Vell.) Sobral	80
Plinia trunciflora (O. Berg) Kausel	80
Psidium cattleianum Sabine	2-3/4-5/6-7/8-10/15-25/30-50
Psidium guajava L.	2-3/4-5/6-7/8-10/15-25
Syzygium jambos (L.) Alston	8-10/15-25
NYCTAGINACEAE	
Guapira asperula (Standl.) Lundell	15-25
Guapira opposita (Vell.) Reitz	15-25/30-50/80
Pisonia ambigua Heimerl	80
OCHNACEAE	
Ouratea parviflora (A. DC.) Baill	30-50/80
OLACACEAE	
Tetrastylidium grandifolium (Baill.) Sleumer	15-25/30-50/80
OLEACEAE	
Heisteria silvianii Schwacke	30-50/80
PHYTOLACCACEAE	
Gallesia integrifolia (Spreng.) Harms	80
Phytolacca dioica L.	15-25
PIPERACEAE	
Piper arboreum Aubl.	6-7/8-10/15-25
Piper cernuum Vell.	15-25/80

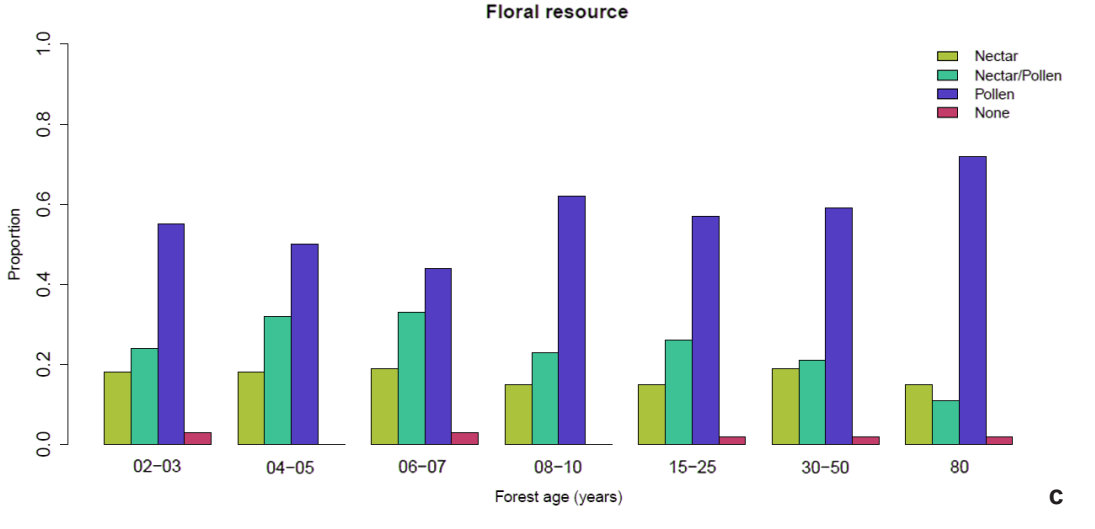
Families and Species	Plot age (years)
Piper dilatatum Rich.	6-7/15-25
Piper gaudichanianum Kunth	8-10/15-25/30-50
PRIMULACEAE	
Myrsine coriaceae (Sw.) R.Br. ex Roem. & Schult.	2-3/4-5/6-7/8-10/15-25
Myrsine gardneriana A. DC.	6-7/8-10/15-25/30-50
Rapanea hermogenesii Jung-Mend & Bernacci	80
PROTEACEAE	
Roupala brasiliensis Klotzsch	80
QUIINACEAE	
Quiina glazovii Engl.	30-50/80
ROSACEAE	
Rubus erythroclapos Mart. ex Hook.f.	6-7
RUBIACEAE	
Amaioua guianensis Aubl.	15-25/30-50/80
Bathysa australis (A.St.-Hil.) K.Schum.	15-25/30-50/80
Chomelia brasiliana A. Rich.	30-50
Cordiera concolor (Cham.) Kuntze	30-50 /80
Coussarea contracta (Walp.) Müll.Arg.	80
Posoqueria latifolia (Rudge) Schult	30-50/80
Psychotria brachypoda (Müll.Arg.) Britton	30-50
Psychotria carthagenensis Jacq.	6-7/15-25
Psychotria dusenii Standl.	15-25/80
Psychotria hastisepala Müll.Arg.	15-25
Psychotria leiocarpa Cham. & Schltdl	15-25/30-50
Psychotria mapourioides DC.	15-25/30-50/80
Psychotria nuda (Cham. & Schltdl.) Wawra	15-25/30-50/80
Psychotria pubigera Schltdl.	30-50/80
Psychotria stenocalyx Müll.Arg.	15-25/30-50/80
Psychotria suterella Müll.Arg.	15-25/30-50/80
Rudgea jasminioides (Cham.) Müll.Arg.	30-50/80
Rudgea recurva Müll.Arg.	15-25/30-50
RUTACEAE	
Citrus limon (L.) Osbeck	8-10
Zanthoxylum rhoifolium Lam.	15-25/80

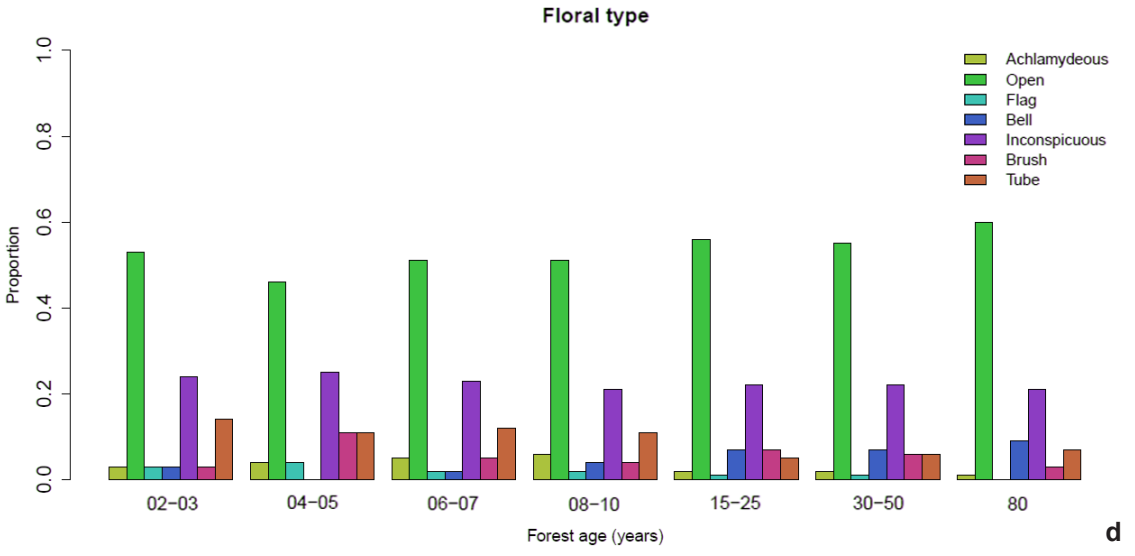
Families and Species	Plot age (years)
SABIACEAE	
Meliosma sellowii Urb.	80
SALICACEAE	
Casearia decandra Jacq.	6-7/8-10/15-25/30-50
Casearia obliqua Spreng.	2-3/6-7/8-10/15-25/30-50/80
Casearia sylvestris Sw.	2-3/6-7/15-25/30-50/80
SAPINDACEAE	
Allophylus edulis (A.St.-Hil. Et al.) Hieron. ex Niederl	15-25/30-50
Allophylus petiolulatus Radek	15-25/80
Cupania oblongifolia Mart.	2-3/15-25/30-50/80
Matayba guianensis Aubl.	4-5/6-7/8-10/15-25/30-50
Matayba juglandifolia (Cambess.) Radlk.	2-3/30-50/80
SAPOTACEAE	
Chrysophyllum inornatum Mart.	2-3/15-25/80
Manilkara subsericea (Mart.) Dubard	30-50
Pouteria venosa (Mart.) Baehni	30-50/80
SOLANACEAE	
Actinistus arborescens (L.) Schltdl.	6-7/8-10/30-50
Actinostemon concolor (Spreng.) Müll.Arg.	30-50/80
Cestrum amictum Schltdl.	6-7/8-10
Solanum pseudoquina A.St.-Hil.	6-7
Solanum rufescens Sendtn.	2-3/8-10
SYMPLOCACEAE	
Symplocos celastrinea Mart.	80
Symplocos laxiflora Benth	4-5/15-25/30-50/80
THEACEAE	
Gordonia fruticosa (Schrad.) H.Keng	15-25
VERBANACEAE	
Aegiphila sellowiana Cham.	2-3
Citharexylum myrianthum Cham.	8-10
VEBENACEAE	
Stachytarpheta maximilianii Schauer	2-3/4-5/6-7/8-10/15-25
Verbena lobata Vell.	2-3
VOCHYSIACEAE	
Vochysia bifalcata Warm.	2-3/4-5/8-10/15-25/30-50

Appendix 3 – Proportion of species for each reproductive trait related to pollination in areas of different ages of Atlantic Forest, southern Brazil – a. pollination system; b. corolla size; c. floral resource; d. floral type; e. sexual system.

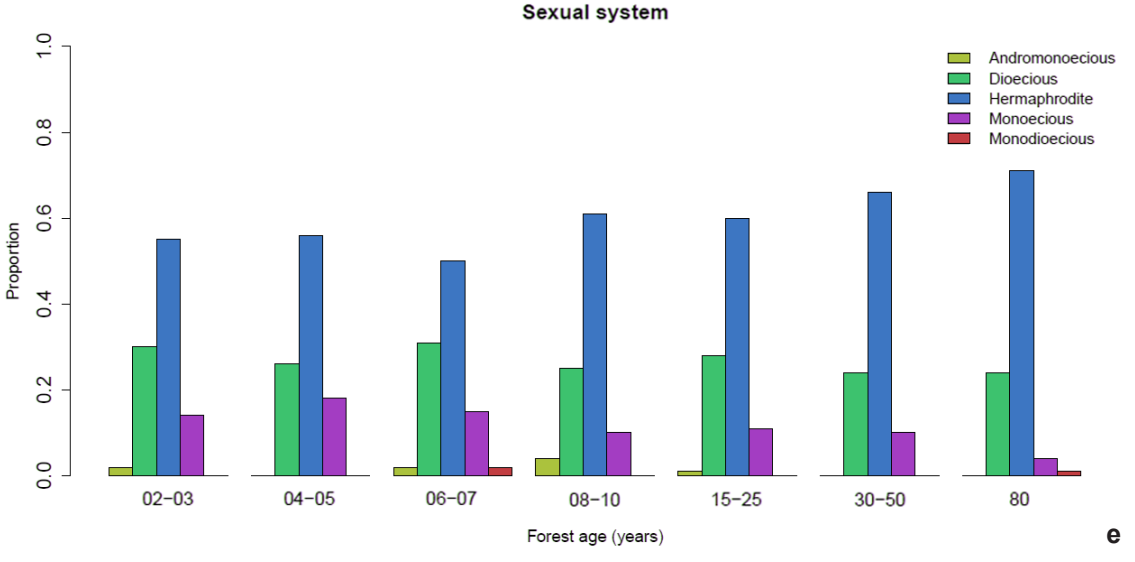






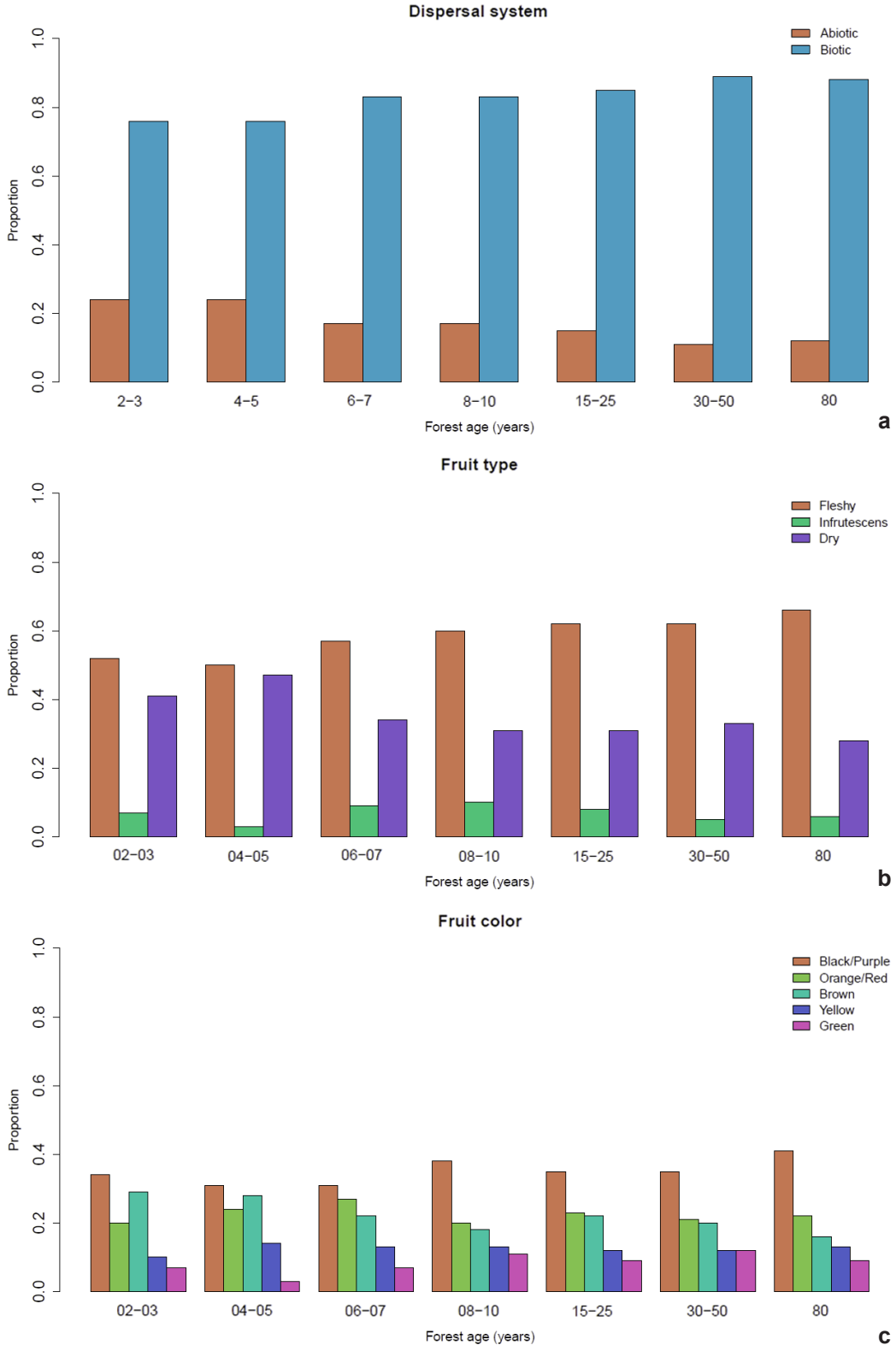

Floral type
Achlamydeous
Open
Flag
Bell
Inconspicuous
Brush
Tube
Proportion
0.0
0.2
0.4
0.6
0.8
1.0
02–03
04–05
06–07
08–10
15–25
30–50
80
Forest age (years)

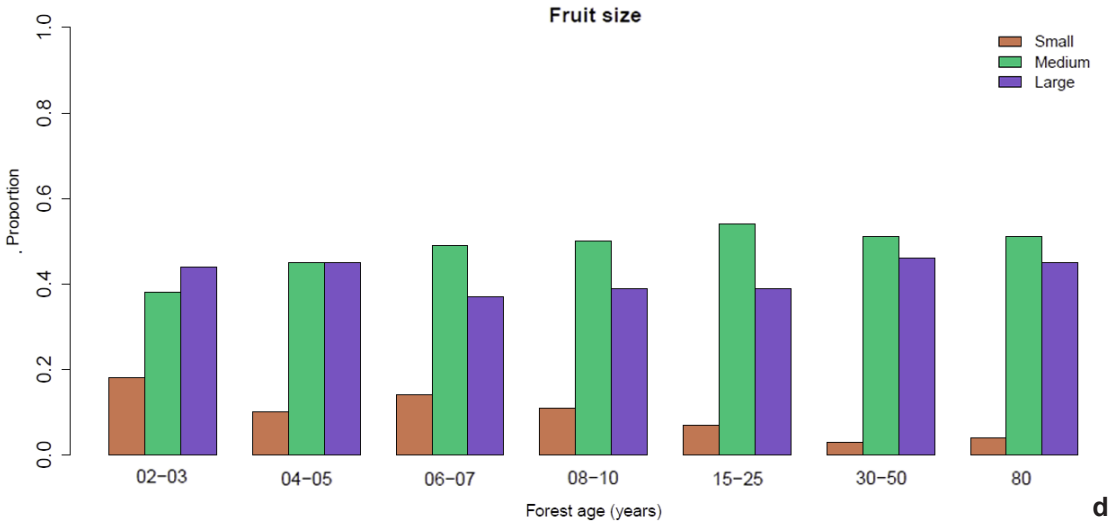
d


Sexual system
Andromonoecious
Dioecious
Hermaphrodite
Monoecious
Monodioecious
Proportion
0.0
0.2
0.4
0.6
0.8
1.0
02–03
04–05
06–07
08–10
15–25
30–50
80
Forest age (years)

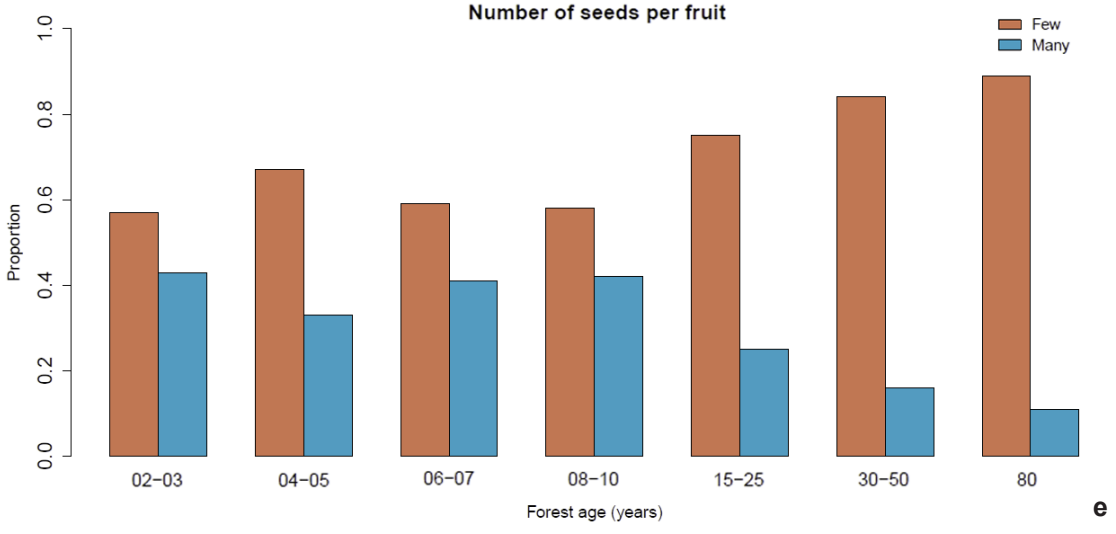
e

Appendix 4 – Proportion of species for each reproductive trait related to seed dispersal in areas of different ages of Atlantic Forest, southern Brazil – a. dispersal system; b. fruit type; c. fruit color; d. fruit size; e. number of seeds per fruit; f. seed size.

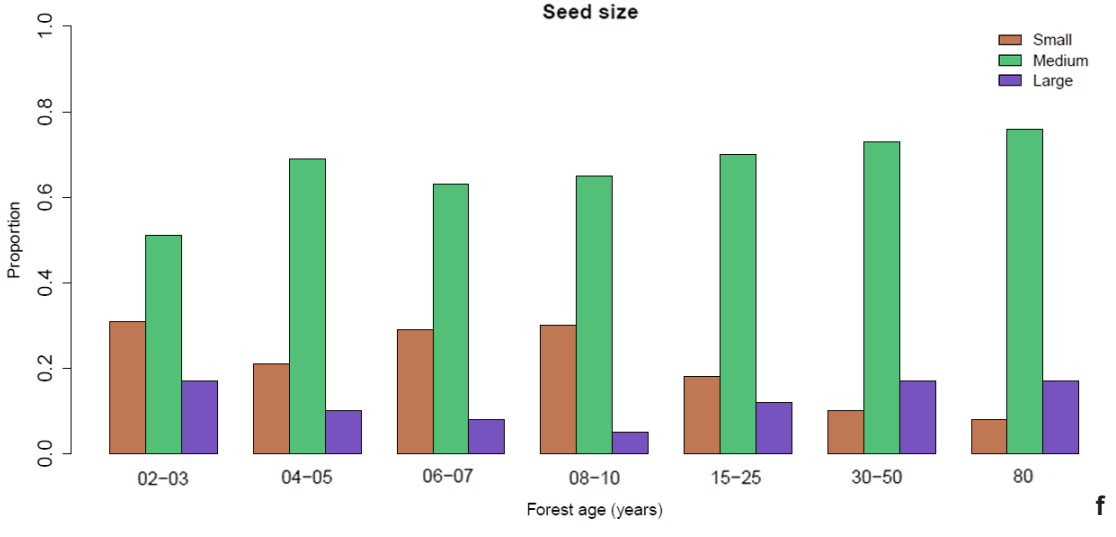



Fruit size
Small
Medium
Large
Proportion
0.0
0.2
0.4
0.6
0.8
1.0
02–03
04–05
06–07
08–10
15–25
30–50
80
Forest age (years)

d


Number of seeds per fruit
Few
Many
Proportion
0.0
0.2
0.4
0.6
0.8
1.0
02–03
04–05
06–07
08–10
15–25
30–50
80
Forest age (years)

e


Seed size
Small
Medium
Large
Proportion
0.0
0.2
0.4
0.6
0.8
1.0
02–03
04–05
06–07
08–10
15–25
30–50
80
Forest age (years)

f