

Table S1. List of known extant vertebrate species in Madagascar with fruits as an important diet item, and their potential roles as primary seed dispersers or predators. († Kissling et al. 2014; § del Hoyo et al. 1992, Goodman et al. 1997, Bollen 2007; |Hutcheon 2003, Kissling et al. 2014, # Ganzhorn et al. 1999; †† Goodman et al. 1997, Bollen et al. 2004b, Bollen 2007, §§ Goodman et al. 1997)

Frugivore species	Seed dispersal role	References for seed dispersal role
Primates†		
<i>Allocebus trichotis</i>	unknown	
<i>Cheirogaleus adipicaudatus</i>	unknown	
<i>Cheirogaleus crossleyi</i>	unknown	
<i>Cheirogaleus major</i>	disperser	(Bollen et al. 2004b, Bollen 2007, Lahann 2007)
<i>Cheirogaleus medius</i>	disperser	(Bollen et al. 2004b, Bollen 2007, Lahann 2007)
<i>Cheirogaleus minusculus</i>	unknown	
<i>Cheirogaleus ravus</i>	unknown	
<i>Cheirogaleus sibreei</i>	unknown	
<i>Eulemur albifrons</i>	unknown	
<i>Eulemur cinereiceps</i>	unknown	
<i>Eulemur collaris</i>	disperser	(Bollen et al. 2004a, Bollen 2007)
<i>Eulemur coronatus</i>	unknown	
<i>Eulemur fulvus</i>	disperser	(Sato 2012, Sato 2013)
<i>Eulemur macaco</i>	disperser	(Birkinshaw 1999, 2001)
<i>Eulemur mongoz</i>	unknown	
<i>Eulemur rubriventer</i>	disperser	(Dew and Wright 1998, Overdorff and Strait 1998, Wright et al. 2011, Razafindratsima et al. 2014)
<i>Eulemur rufifrons</i>	disperser	(Ralisoamalala 1996, Scharfe and Schlund 1996, Dew and Wright 1998, Overdorff and Strait 1998, Ganzhorn et al. 1999, Spehn and Ganzhorn 2000, Wright et al. 2011, Razafindratsima et al. 2014)
<i>Eulemur rufus</i>	unknown	
<i>Eulemur sanfordi</i>	unknown	
<i>Lemur catta</i>	disperser	(Bodin et al. 2006, Mertl-Millhollen et al. 2011)
<i>Microcebus berthae</i>	unknown	
<i>Microcebus bongolavensis</i>	unknown	
<i>Microcebus danfossorum</i>	unknown	
<i>Microcebus griseorufus</i>	unknown	
<i>Microcebus jollyae</i>	unknown	
<i>Microcebus lehilahytsara</i>	unknown	
<i>Microcebus mamiratra</i>	unknown	
<i>Microcebus mittermeieri</i>	unknown	
<i>Microcebus murinus</i>	disperser	(Lahann 2007, Valenta et al. 2013)
<i>Microcebus myoxinus</i>	unknown	

Frugivore species	Seed dispersal role	References for seed dispersal role
<i>Microcebus ravelobensis</i>	disperser	(Valenta et al. 2013)
<i>Microcebus 'rufus'</i>	disperser	(Bollen et al. 2004b, Bollen 2007)
<i>Microcebus sambiranensis</i>	unknown	
<i>Microcebus simmonsii</i>	unknown	
<i>Microcebus tavaratra</i>	unknown	
<i>Mirza coquereli</i>	unknown	
<i>Propithecus candidus</i>	unknown	
<i>Propithecus coquereli</i>	unknown	
<i>Propithecus coronatus</i>	unknown	
<i>Propithecus deckenii</i>	unknown	
<i>Propithecus diadema</i>	unknown	
<i>Propithecus edwardsi</i>	disperser/predator	(Dew and Wright 1998, Overdorff and Strait 1998, Wright et al. 2011)
<i>Propithecus perrieri</i>	unknown	
<i>Propithecus tattersalli</i>	unknown	
<i>Propithecus verreauxi</i>	disperser/predator	(Ralisoamalala 1996, Scharfe and Schlund 1996)
<i>Varecia rubra</i>	disperser	(Razafindratsima and Razafimahatratra 2010, Razafindratsima and Martinez 2012)
<i>Varecia variegata</i> ssp.	disperser	(Dew and Wright 1998, Moses and Semple 2011, Wright et al. 2011, Razafindratsima et al. 2014)
Bats 		
<i>Eidolon dupreanum</i>	disperser	(Picot et al. 2007, Ratrimomanarivo 2007)
<i>Pteropus rufus</i>	disperser	(Bollen and Elsacker 2002, Bollen et al. 2004a, Bollen 2007)
<i>Rousettus madagascariensis</i>	disperser	(Andrianaivoarivelo et al. 2011, Andrianaivoarivelo et al. 2012)
Rodents††		
<i>Rattus rattus</i>	predator	(Bollen et al. 2004b)
<i>Eliurus webbi</i>	predator	(Bollen et al. 2004b)
<i>Nesomys</i> sp.	unknown	
Other mammals§§		
<i>Potamochoerus larvatus</i>	unknown	
Birds §		
<i>Agapornis canus</i>	unknown	
<i>Alectroenas madagascariensis</i>	disperser	(Bollen et al. 2004a, Bollen et al. 2004b, Bollen 2007)
<i>Anas erythrorhyncha</i>	unknown	
<i>Saxicoloides albospectularis</i>	unknown	
<i>Coracopsis vasa</i>	predator	(Scharfe and Schlund 1996, Bollen and van Elsacker 2004, Bollen et al. 2004a)

Frugivore species	Seed dispersal role	References for seed dispersal role
<i>Coracopsis nigra</i>	disperser/predator	(Böhning-Gaese et al. 1995, Scharfe and Schlund 1996, Böhning-Gaese et al. 1999, Bleher and Böhning-Gaese 2001, Bollen 2007)
<i>Coua coquereli</i>	unknown	
<i>Coua reynaudii</i>	unknown	
<i>Coua ruficeps</i>	unknown	
<i>Coua serriana</i>	unknown	
<i>Cyanolanius madagascarinus</i>	unknown	
<i>Dendrocygna bicolor</i>	unknown	
<i>Dicrurus forficatus</i>	disperser/predator	(Scharfe and Schlund 1996, Bleher and Böhning-Gaese 2001)
<i>Hypsipetes madagascariensis</i>	disperser/predator	(Scharfe and Schlund 1996, Bleher and Böhning-Gaese 2001, Bollen et al. 2004a, Bollen et al. 2004b, Bollen 2007)
<i>Limosa lapponica</i>	unknown	
<i>Margaroperdix madagarensis</i>	unknown	
<i>Monias benschi</i>	unknown	
<i>Monticola imerinus</i>	unknown	
<i>Monticola sharpei</i>	unknown	
<i>Nesoenas picturata</i>	predator	(Bollen et al. 2004a, Bollen 2007)
<i>Philepitta castanea</i>	disperser	(Rakotomanana et al. 2003)
<i>Philepitta schelgeli</i>	unknown	
<i>Saroglossa auratus</i>	unknown	
<i>Treron australis</i>	disperser	(Bollen et al. 2004b, Bollen 2007)
<i>Zosterops maderaspatanus</i>	disperser/predator	(Goodman et al. 1997, Bollen et al. 2004a)
Reptiles #		
<i>Oplurus cuvieri</i>	unknown	
<i>Pyxis planicauda</i>	unknown	
<i>Zonosaurus laticaudatus</i>	unknown	