Electronic Supplmentary Materials: Evolutionary pressures on primate intertemporal choice

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Table S1: Species intertemporal choice, allometric, relative brain size, and group size data

Species	Indifference point (s)	Body mass (g)	Absolute brain size (cm^3)	Relative brain size (residuals)	Lifespan (yrs)	Home range (ha)	Group size
Eulemur macaco	14.8 [1]	2330.8 [2–5]	25.4 [6]	-0.22	28.0 [7]	13.6 [4,8–10]	8.2 [4,9,11,12]
Varecia rubra	16.6 [1]	3313.6 [2,13,14]	31.1 [6]	-0.31	35.0 [15]	37.3 [16–18]	9.5 [16–18]
Varecia variegata	17.9 [1]	3485.9 [2,3,19]	32.1 [6]	-0.31	34.0 [15]	86.0 [20–23]	5.3 [19,20,22–29]
Saguinus oedipus	7.9 [30]	396.8 [30]	9.7 [6]	0.48	26.2 [15]	8.5 [31]	6.4 [31–33]
Callitrix jacchus	14.4 [30]	323.4 [30]	7.2 [6]	0.24	23.0 [15]	2.3 [34–38]	9.2 [35,38–40]
Sapajus apella	55.6 [41,42]	3167.5 [43]	66.4 [6]	-0.26	45.1 [7]	182.6 [44–49]	15.6 [44,45,47–51]
Ateles geoffroyi	76.0 [41]	7435.6 [43,52]	107.3 [6]	0.14	48.0 [7]	129.4 [53–59]	10.2 [53,57–63]
Macaca fasicularis	26.4 [41,64]	4928.0 [65–68]	64.4 [6]	0.40	37.1 [69]	54.6 [65,66,70,71]	31.2 [65,66,70–79]
Macaca mulatta	19.3 [80,81]	6624.0 [65,82–84]	88.3 [6]	0.20	40.0 [85]	202.6 [65,86,87]	27.0 [65,86–90]
Pongo pygmeaus	49.6 [41]	54416.4 [43,91,92]	379.8 [6]	0.04	59.0 [7]	770.2 [93–97]	1.9 [94,98,99]
Gorilla gorilla	44.0 [41]	145331.6 [100]	501.5 [6]	0.38	54.0 [7]	1777.5 [101–108]	9.7 [103,104,109–115]
Pan paniscus	74.4 [116]	36585.0 [100,117]	344.3 [6]	0.35	50.0 [15]	3860.0 [118–121]	54.6 [119–123]
Pan troglodytes	122.6 [116]	39348.6 [43,100,124–127]	367.6 [6]	-0.11	59.4 [7]	8910.1 [108,128–140]	48.0 [124,128–131,137,141–145]

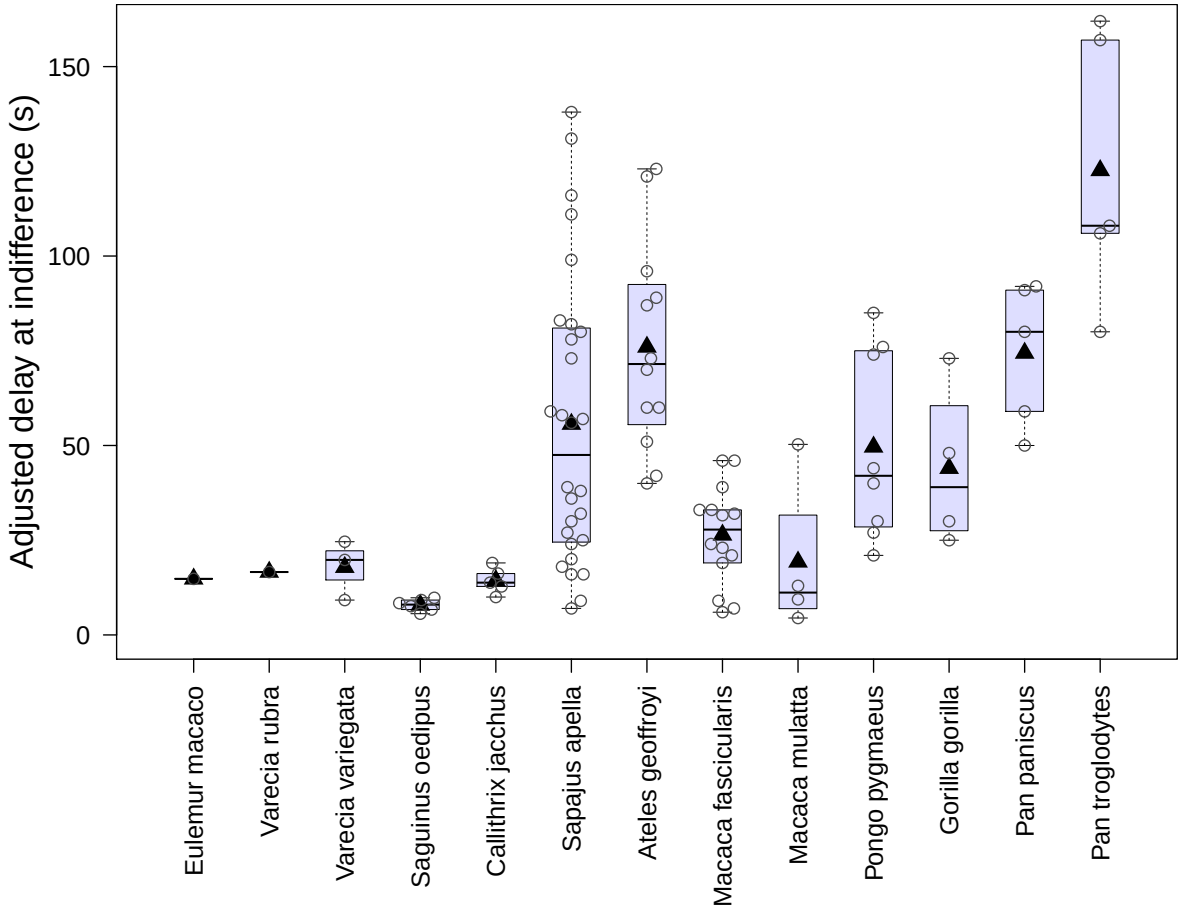

Figure S1: Intertemporal choice data. Thirteen species have been tested with adjusting intertemporal choice tasks: black lemurs (*Eulemur macaco*)[1], red-ruffed lemurs (*Varecia rubra*)[1], black-and-white-ruffed lemurs (*Varecia variegata*)[1], cotton-top tamarins (*Saguinus oedipus*)[30], common marmosets (*Callithrix jacchus*)[30], brown capuchins (*Sapajus apella*)[41,42], black-handed spider monkeys (*Ateles geoffroyi*)[41], long-tailed macaques (*Macaca fascicularis*)[41,64], rhesus macaques (*Macaca mulatta*)[80,81], orangutans (*Pongo pygmaeus*)[41], lowland gorillas (*Gorilla gorilla*)[41], bonobos (*Pan paniscus*)[116], and chimpanzees (*Pan troglodytes*)[116]. The y-axis illustrates the indifference points representing the waiting time tolerated for three times as much food compared to an immediate reward. Circles represent data points for individual subjects, triangles represent the species mean, lines represent the median, boxes represent the interquartile range (25-75%), and whiskers represent the range.

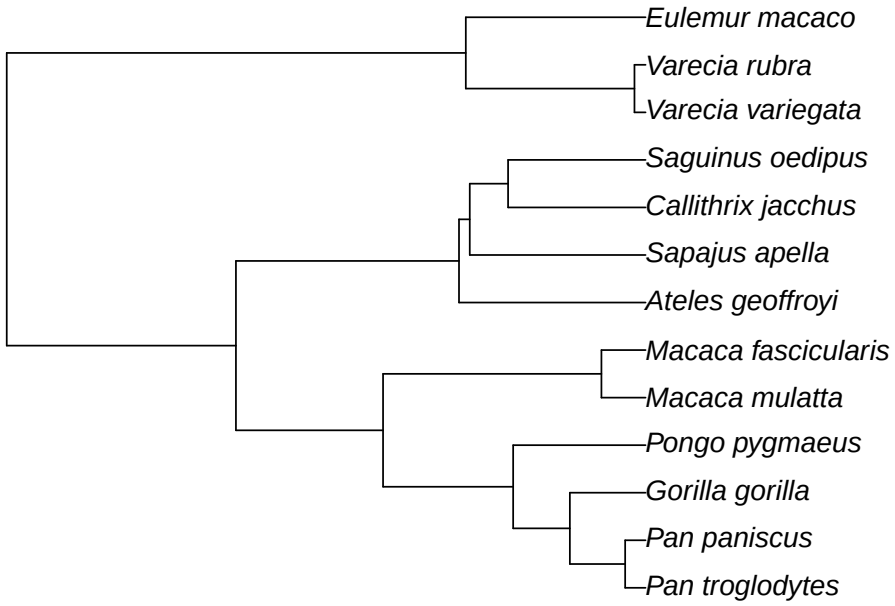

Figure S2: Phylogeny of species in comparative analysis. I used 10kTrees version 3 [146] to construct the weighted branch lengths of the primate phylogeny.

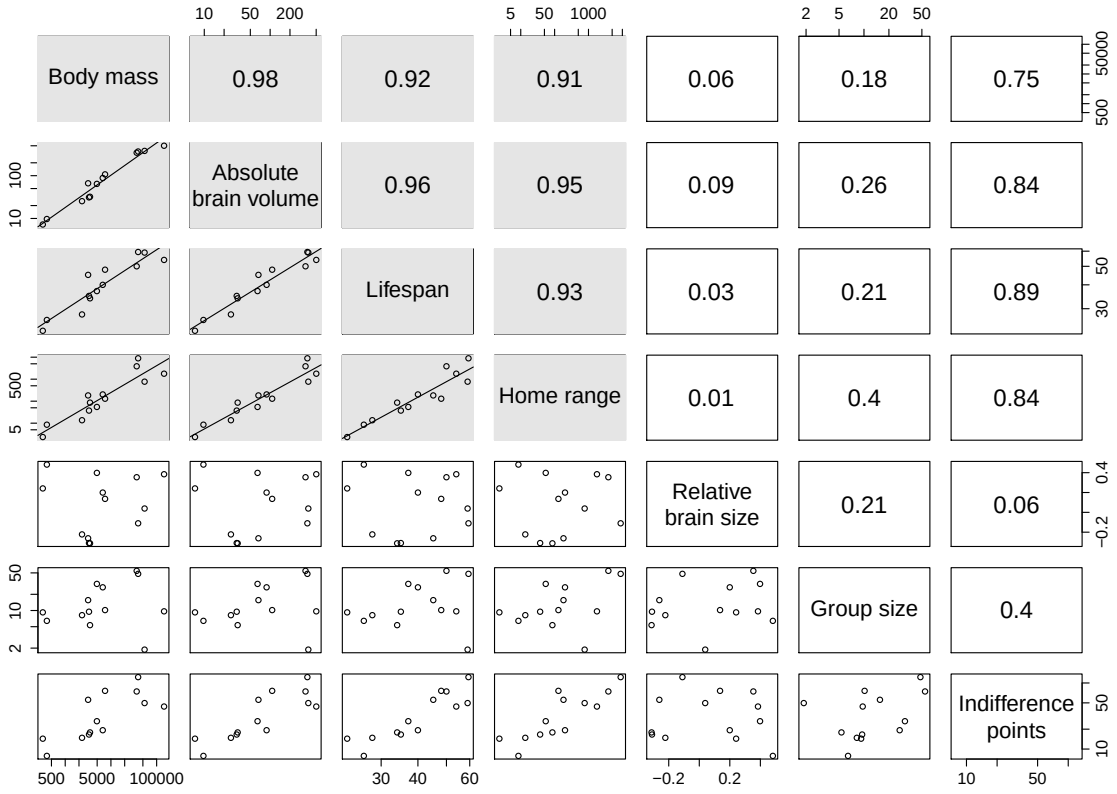

Figure S3: Correlation matrix for predictor variables and indifference points. All variables except relative brain size are plotted on log scale. Body mass, absolute brain volume, lifespan, and home range size (shaded panels) are highly intercorrelated. Upper panels show correlation coefficients.

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