Supplement: The effect of dominance rank on female reproductive success in social mammals

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07/10/2021

Supplementary data

Data Table. References for the effect sizes of dominance rank on female reproductive success, for the dominance system in a given population, and for the average relatedness among females in social groups in a given population.

Id	Species	Reference effect size	Reference dominance system	Reference relatedness
1	Cervus_elaphus	(Clutton-Brock, et al. 1984)	(HALL, 2010)	(Nussey, et al., 2005)
2	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
3	Macaca_arctoides	(Nieuwenhuijsen, et al., 1985)	(HOLEKAMP and SMALE, 1991)	NA
4	Macaca_fuscata	(Gouzoules, et al. 1982)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
5	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
6	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
7	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
8	Macaca_mulatta	(Drickamer, 1974)	(Deutsch and Lee, 1991)	NA
9	Mandrillus_sphinx	(Setchell, et al. 2005)	(Setchell et al. 2002)	NA
10	Papio_cynocephalus	(, 2021)	(Packer, et al., 1995)	NA
11	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, et al., 1995)	(Wasser and Starling, 1988)
12	Rangifer_tarandus	(Holand, et al., 2004)	(Holand, et al., 2004)	(Djakovifa et al., 2011)
13	Callithrix_jacchus	(Sousa, et al., 2005)	(Digby, 1995)	(Nievergelt et al. 2009)
14	Chlorocebus_aethiops	(Fairbanks and McGuire, 1984)	(HOLEKAMP and SMALE, 1991)	(Fairbanks, et al., 2011)
15	Chlorocebus_aethiops	(Fairbanks and McGuire, 1984)	(HOLEKAMP and SMALE, 1991)	(Fairbanks, et al., 2011)
16	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
17	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
18	Lemur_catta	(Takahata, et al., 2007)	(Taylor and Sussman, 1985)	(Parga, et al., 2015)
19	Macaca_fuscata	(Gouzoules,et al. 1982)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
20	Macaca_fuscata	(Gouzoules,et al. 1982)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
21	Macaca_fuscata	(Wolfe, 1984)	(Koyama et al. 2003)	(Koyama et al. 2003)
22	Macaca_sylvanus	(Kümmerli and Martin, 2005)	(Paul and Kuester, 1987)	(Kuemmerli and Martin, 2008)
23	Macaca_sylvanus	(Kümmerli and Martin, 2005)	(Paul and Kuester, 1987)	(Kuemmerli and Martin, 2008)
24	Mesocricetus_auratus	(Huck, Lisk, and McKay, 1988)	(Huck, Lisk, and McKay, 1988)	(Huck, Lisk, and McKay, 1988)
25	Mesocricetus_auratus	(Huck, Lisk, and McKay, 1988)	(Huck, Lisk, and McKay, 1988)	(Huck, Lisk, and McKay, 1988)

26	Mesocricetus_auratus	(Huck, Lisk, and McKay, 1988)	(Huck, Lisk, and McKay, 1988)	(Huck, Lisk, and McKay, 1988)
27	Oreamnos_americanus	(Cote and Festa-Bianchet, 2001)	(Cote, 2000)	(Shafer, et al., 2012)
28	Oryctolagus_cuniculus	(von Holst, et al., 2002)	(von Holst, et al., 2002)	(Surrridge, et al., 1999)
29	Oryctolagus_cuniculus	(von Holst, et al., 2002)	(von Holst, et al., 2002)	(Surrridge, et al., 1999)
30	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
31	Semnopithecus_entellus	(Borries, et al. 1991)	(Borries, Sommer, and Srivastava, 1991)	NA
32	Rangifer_tarandus	(Holand, et al., 2004)	(Holand, Gjonstein, Losvar, et al., 2004)	(Djakovifa et al., 2011)
33	Sciurus_vulgaris	(Wauters and Dhondt, 1989)	(Wauters and Dhondt, 1989)	NA
34	Sciurus_vulgaris	(Wauters and Dhondt, 1989)	(Wauters and Dhondt, 1989)	NA
35	Theropithecus_gelada	(DUNBAR and DUNBAR, 1977)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
36	Papio_ursinus	(Cheney et al. 2006)	(HOLEKAMP and SMALE, 1991)	(Silk, Cheney, and Seyfarth, 1999)
37	Papio_ursinus	(Bulger and Hamilton, 1987)	(HOLEKAMP and SMALE, 1991)	(Silk, Cheney, and Seyfarth, 1999)
38	Papio_ursinus	(Bulger and Hamilton, 1987)	(HOLEKAMP and SMALE, 1991)	(Silk, Cheney, and Seyfarth, 1999)
39	Cervus_elaphus	(Clutton-Brock, et al., 1984)	(HALL, 2010)	(Nussey, et al., 2005)
40	Crocuta_crocuta	(Holekamp, et al. 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
41	Gorilla_beringei	(Robbins, et al., 2007)	(Robbins, et al., 2007)	(Watts, 1994)
42	Lemur_catta	(Takahata, et al., 2007)	(Taylor and Sussman, 1985)	(Parga, et al., 2015)
43	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
44	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
45	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
46	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
47	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
48	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
49	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
50	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
51	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
52	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
53	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
54	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
55	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
56	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
57	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
58	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
59	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
60	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
61	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
62	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
63	Macaca_fascicularis	(VanNoordwijk & VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
64	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
65	Macaca_mulatta	(Meikle and Vessey, 1988)	(Deutsch and Lee, 1991)	NA
66	Oreamnos_americanus	(Cote and Festa-Bianchet, 2001)	(Fa, 2000)	(Shafer, et al., 2012)
67	Oreamnos_americanus	(Cote and Festa-Bianchet, 2001)	(Fa, 2000)	(Shafer, et al., 2012)
68	Oryctolagus_cuniculus	(von Holst, et al., 2002)	(von Holst, et al., 2002)	(Surrridge, et al., 1999)
69	Pan_troglodytes	(Pusey, 1997)	(Wittig et al. 2003)	(Vigilant, et al., 2001)

70	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
71	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
72	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
73	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
74	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
75	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
76	Papio_cynocephalus	(Silk, 2003)	(Packer, Collins, Sindimwo, et al., 1995)	(Horn, et al., 2007)
77	Papio_cynocephalus	(Silk, 2003)	(Packer, Collins, Sindimwo, et al., 1995)	(Horn, et al., 2007)
78	Semnopithecus_entellus	(Borries, et al., 1991)	(Borries, Sommer, and Srivastava, 1991)	NA
79	Semnopithecus_entellus	(Borries, et al., 1991)	(Borries, Sommer, and Srivastava, 1991)	NA
80	Crocuta_crocuta	(Hofer and East, 2003)	(Hofer and East, 2003)	NA
81	Papio_ursinus	Cheney et al. 2006)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
82	Papio_ursinus	(Cheney et al. 2006)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
83	Papio_ursinus	(Bulger and Hamilton, 1987)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
84	Papio_ursinus	(Bulger and Hamilton, 1987)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
85	Macaca_fuscata	(Gouzoules, et al., 1982)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
86	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
87	Mandrillus_sphinx	(Setchell et al. 2002)	(Setchell et al. 2002)	NA
88	Papio_anubis	(Cheney et al. 2006)	(Johnson, 1987)	NA
89	Papio_ursinus	NA	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
90	Papio_ursinus	(Cheney et al. 2006)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
91	Chlorocebus_aethiops	(Fairbanks and McGuire, 1984)	(HOLEKAMP and SMALE, 1991)	(Fairbanks, et al., 2011)
92	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
93	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
94	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
95	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
96	Crocuta_crocuta	(Holekamp, et al., 1996)	(Hofer and East, 2003)	(Horn, et al., 2004)
97	Gorilla_beringei	(Robbins, et al., 2007)	(Robbins, et al., 2005)	(Watts, 1994)
98	Macaca_arctoides	(Nieuwenhuijsen, et al., 1985)	(HOLEKAMP and SMALE, 1991)	NA
99	Mandrillus_sphinx	(Setchell et al. 2002)	(Setchell et al. 2002)	NA
100	Mandrillus_sphinx	(Setchell et al. 2002)	(Setchell et al. 2002)	NA
101	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	NA
102	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
103	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	NA
104	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
105	Papio_anubis	(Garcia, Lee, and Rosetta, 2006)	(Johnson, 1987)	NA
106	Papio_anubis	(Garcia, Lee, and Rosetta, 2006)	(Johnson, 1987)	NA
107	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
108	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
109	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
110	Papio_anubis	(Barton and Whiten, 1993)	(Johnson, 1987)	(Lynch 2016)
111	Papio_ursinus	(Bulger and Hamilton, 1987)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
112	Papio_ursinus	(Bulger and Hamilton, 1987)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
113	Gorilla_beringei	(Robbins, et al., 2007)	(Robbins, et al., 2005)	(Watts, 1994)

114	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
115	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
116	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
117	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
118	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
119	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
120	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
121	Macaca_fascicularis	(VanNoordwijk VanSchaik, 1999)	(van Noordwijk and van Schaik, 1987)	(Ruiter and Geffen, 1998)
122	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
123	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
124	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
125	Macaca_fuscata	(Takahata, et al., 1998)	(Koyama et al. 2003)	(Nakagawa, et al., 2015)
126	Mandrillus_sphinx	(Setchell, et al., 2005)	(Setchell et al. 2002)	NA
127	Ovis_canadensis	(Festa-Bianchet, 1991)	(Festa-Bianchet, 1991)	(Fournier & Festa-Bianchet, 1995)
128	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
129	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
130	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
131	Crocuta_crocuta	(Hofer and East, 2003)	(Hofer and East, 2003)	NA
132	Macaca_fuscata	(Takahata, 1980)	(Koyama et al. 2003)	(Koyama)2003
133	Oryctolagus_cuniculus	(von Holst, Hutzelmeyer, Kaetzke, et al., 2002)	(von Holst, Hutzelmeyer, Kaetzke, et al., 2002)	(Surrridge, et al., 1999)
134	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
135	Papio_anubis	(Packer, et al., 1995)	(Johnson, 1987)	(Kopp 2015)
136	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
137	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
138	Papio_cynocephalus	(Wasser, et al., 2004)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser and Starling, 1988)
139	Crocuta_crocuta	(Hofer and East, 2003)	(Hofer and East, 2003)	NA
140	Papio_ursinus	(Cheney et al. 2006)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
141	Papio_ursinus	(Cheney et al. 2006)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
142	Cervus_elaphus	(Clutton-Brock, et al., 1984)	(HALL, 2010)	(Nussey, et al., 2005)
143	Cervus_elaphus	(Clutton-Brock, et al., 1984)	(HALL, 2010)	(Nussey, et al., 2005)
144	Macaca_mulatta	(Wilson, et al., 1978)	(Deutsch and Lee, 1991)	(Bernstein and Ehardt, 1986)
145	Macaca_mulatta	(Wilson, et al., 1978)	(Deutsch and Lee, 1991)	(Bernstein and Ehardt, 1986)
146	Macaca_sinica	(Dittus, 1979)	(Dittus, 1986)	NA
147	Macaca_sinica	(Dittus, 1979)	(Dittus, 1986)	NA
148	Lycaon_pictus	(Creel, et al., 1997)	(Spiering, et al., 2009)	(Girman, et al., 1997)
149	Fukomys_damarensis	(Burland, et al., 2004)	(Gaylard, Harrison, and Bennett, 1998)	(Burland, et al., 2002)
150	Macaca_fuscata	(Fedigan, et al., 1986)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
151	Macaca_fuscata	(Fedigan, et al., 1986)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
152	Macaca_fuscata	(Fedigan, et al., 1986)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
153	Macaca_fuscata	(Fedigan, et al., 1986)	(Koyama et al. 2003)	(Baxter and Fedigan, 1979)
154	Helogale_parvula	(Keane, et al., 1994)	(Creel, 2005)	(Creel and Waser, 1994)
155	Helogale_parvula	(Keane, et al., 1994)	(Creel, 2005)	(Creel and Waser, 1994)
156	Helogale_parvula	(Keane, et al., 1994)	(Creel, 2005)	(Creel and Waser, 1994)
157	Marmota_caligata	(Wasser and Barash, 1983)	(Patil, Karels, and Hik, 2015)	NA

158	Marmota_caligata	(Wasser and Barash, 1983)	(Patil, Karels, and Hik, 2015)	NA
159	Marmota_caligata	(Wasser and Barash, 1983)	(Patil, Karels, and Hik, 2015)	NA
160	Marmota_caligata	(Wasser and Barash, 1983)	(Patil, Karels, and Hik, 2015)	NA
161	Macaca_radiata	(Silk, et al., 1981)	(HOLEKAMP and SMALE, 1991)	NA
162	Macaca_radiata	(Silk, et al., 1981)	(HOLEKAMP and SMALE, 1991)	NA
163	Macaca_radiata	(Silk, et al., 1981)	(HOLEKAMP and SMALE, 1991)	NA
164	Marmota_flaviventris	(Huang, et al., 2011)	(Huang, Wey, and Blumstein, 2011)	(Armitage, et al., 2011)
165	Marmota_flaviventris	(Huang, et al., 2011)	(Huang, Wey, and Blumstein, 2011)	(Armitage, et al., 2011)
166	Marmota_flaviventris	(Huang, et al., 2011)	(Huang, Wey, and Blumstein, 2011)	(Armitage, et al., 2011)
167	Marmota_flaviventris	(Huang, et al., 2011)	(Huang, Wey, and Blumstein, 2011)	(Armitage, et al., 2011)
168	Alouatta_palliata	(Glander, 1980)	(Jones, 1980)	NA
169	Alouatta_palliata	(Glander, 1980)	(Jones, 1980)	NA
170	Equus_quagga	(Pluhacek, and Plausik, 2006)	(Lloyd and Rasa, 1994)	NA
171	Equus_quagga	(Pluhacek, and Plausik, 2006)	(Lloyd and Rasa, 1994)	NA
172	Equus_zebra	(Lloyd and Rasa, 1989)	(Lloyd and Rasa, 1994)	NA
173	Equus_zebra	(Lloyd and Rasa, 1989)	(Lloyd and Rasa, 1994)	NA
174	Equus_zebra	(Lloyd and Rasa, 1989)	(Lloyd and Rasa, 1994)	NA
175	Equus_zebra	(Lloyd and Rasa, 1989)	(Lloyd and Rasa, 1994)	NA
176	Equus_zebra	(Lloyd and Rasa, 1989)	(Lloyd and Rasa, 1994)	NA
177	Equus_caballus	(Rubenstein et al. 2009)	(Sinderbrand 2011)	NA
178	Equus_caballus	(Rubenstein et al. 2009)	(Sinderbrand 2011)	NA
179	Equus_caballus	(Rubenstein et al. 2009)	NA	NA
180	Mirounga_angustirostris	(Cheney et al. 1988)	(Christenson and Boeuf, 1978)	NA
181	Ovis_canadensis	(Hass, 1991)	(Festa-Bianchet, 1991)	(Fournier & Festa-Bianchet, 1995)
182	Ovis_canadensis	(Hass, 1991)	(Festa-Bianchet, 1991)	(Fournier & Festa-Bianchet, 1995)
183	Ovis_canadensis	(Hass, 1991)	(Festa-Bianchet, 1991)	(Fournier & Festa-Bianchet, 1995)
184	Hyaena_brunnea	(Owens and Owens, 1996)	(OWENS and OWENS, 1996)	(Knowles, et al., 2009)
185	Hyaena_brunnea	(Owens and Owens, 1996)	(OWENS and OWENS, 1996)	(Knowles, et al., 2009)
186	Mus_musculus	(Rusu and Krackow, 2004)	(Rusu and Krackow, 2004)	(Rusu and Krackow, 2004)
187	Mus_musculus	(Koenig, 1994)	(Rusu and Krackow, 2004)	(Koenig, 1994)
188	Mus_musculus	(Koenig, 1994)	(Rusu and Krackow, 2004)	(Koenig, 1994)
189	Mus_musculus	(Koenig, 1994)	(Rusu and Krackow, 2004)	(Koenig, 1994)
190	Mus_musculus	(Koenig, 1994)	(Rusu and Krackow, 2004)	(Koenig, 1994)
191	Rhabdomys_pumilio	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)
192	Rhabdomys_pumilio	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)
193	Rhabdomys_pumilio	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)
194	Rhabdomys_pumilio	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)
195	Rhabdomys_pumilio	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)
196	Rhabdomys_pumilio	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)	(Kinahan and Pillay, 2007)
197	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
198	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
199	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
200	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
201	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)

202	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
203	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
204	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
205	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
206	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
207	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
208	Apodemus_sylvaticus	(Gerlach, 2002)	(Gerlach, 2002)	(Gerlach, 2002)
209	Rattus_norvegicus	(Schultz and Lore, 1993)	(Ziporyn and McClintock, 1991)	(Schultz and Lore, 1993)
210	Marmota_marmota	(Hacklaender, et al., 2003)	(Lardy, and Cohas, 2013)	(Hacklaender, et al. 2003)
211	Heterocephalus_glaber	(Faulkes and Bennett, 2001)	(Clarke and Faulkes, 1997)	NA
212	Fukomys_damarensis	(Faulkes and Bennett, 2001)	(Gaylard, Harrison, and Bennett, 1998)	(Burland, et al., 2002)
213	Cryptomys_hottentotus	(Faulkes and Bennett, 2001)	(Gaylard, Harrison, and Bennett, 1998)	NA
214	Suricata_suricatta	(Griffin, 2003)	(Russell, et al., 2004)	(Griffin, 2003)
215	Leontopithecus_rosalia	(Henry, et al., 2013)	(Baker et al. 2002)	NA
216	Leontopithecus_rosalia	(Henry, et al., 2013)	(Baker et al. 2002)	NA
217	Leontopithecus_rosalia	(Henry, et al., 2013)	(Baker et al. 2002)	NA
218	Leontopithecus_rosalia	(Dietz and Baker, 1993)	NA	NA
219	Leontocebus_fuscicollis	(Goldizen, et al., 1996)	(Goldizen, et al., 1996)	NA
220	Saguinus_mystax	(Garber, et al., 1993)	(Smith 2000)	NA
221	Cebus_capucinus	(Fedigan, et al, 2008)	(Fedigan and Bergstrom, 2010)	NA
222	Cebus_capucinus	(Fedigan, et al, 2008)	(Fedigan and Bergstrom, 2010)	NA
223	Cercopithecus_mitis	(Cords, 2002)	(Klass and Cords, 2015)	NA
224	Chlorocebus_aethiops	NA	(HOLEKAMP and SMALE, 1991)	NA
225	Chlorocebus_aethiops	(Cheney et al. 1988)	(HOLEKAMP and SMALE, 1991)	NA
226	Chlorocebus_aethiops	(Cheney et al. 1988)	(HOLEKAMP and SMALE, 1991)	NA
227	Chlorocebus_aethiops	(Whitten et al. 1983)	(HOLEKAMP and SMALE, 1991)	NA
228	Chlorocebus_aethiops	(Whitten et al. 1983)	(HOLEKAMP and SMALE, 1991)	NA
229	Chlorocebus_aethiops	(Whitten et al. 1983)	(HOLEKAMP and SMALE, 1991)	NA
230	Chlorocebus_aethiops	(Whitten et al. 1983)	(HOLEKAMP and SMALE, 1991)	NA
231	Pan_troglodytes	(Jones, et al., 2010)	(Wittig et al. 2003)	(Vigilant, et al., 2001)
232	Papio_anubis	(Smuts and Nicolson, 1989)	(Johnson, 1987)	NA
233	Papio_anubis	(Smuts and Nicolson, 1989)	(Johnson, 1987)	NA
234	Macaca_fuscata	(Itoigawa,et al. 1992)	(Koyama et al. 2003)	NA
235	Macaca_fuscata	(Itoigawa, et al., 1992)	(Koyama et al. 2003)	NA
236	Macaca_fuscata	(Itoigawa, et al., 1992)	(Koyama et al. 2003)	NA
237	Macaca_fuscata	(Itoigawa, et al., 1992)	(Koyama et al. 2003)	NA
238	Macaca_fuscata	(Itoigawa, et al., 1992)	(Koyama et al. 2003)	NA
239	Macaca_fuscata	(Itoigawa, et al., 1992)	(Koyama et al. 2003)	NA
240	Ovis_canadensis	(Eccles and Shackleton, 1986)	(Festa-Bianchet, 1991)	(Fournier & Festa-Bianchet, 1995)
241	Ovis_canadensis	(Eccles and Shackleton, 1986)	(Festa-Bianchet, 1991)	(Fournier & Festa-Bianchet, 1995)
242	Ammotragus_lervia	(Cassinello and Alados, 1996)	(Cassinello, 1995)	NA
243	Ammotragus_lervia	(Cassinello and Alados, 1996)	(Cassinello, 1995)	NA
244	Ammotragus_lervia	(Cassinello and Alados, 1996)	(Cassinello, 1995)	NA
245	Ammotragus_lervia	(Cassinello and Alados, 1996)	(Cassinello, 1995)	NA

246	Antilocapra_americana	(Clancey and Byers, 2015)	(Dennehy, 2001)	(Carling, et al., 2003)
247	Antilocapra_americana	(Clancey and Byers, 2015)	(Dennehy, 2001)	(Carling, et al., 2003)
248	Antilocapra_americana	(Clancey and Byers, 2015)	(Dennehy, 2001)	(Carling, et al., 2003)
249	Nanger_dama	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
250	Gazella_cuvieri	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
251	Gazella_cuvieri	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
252	Gazella_cuvieri	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
253	Gazella_cuvieri	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
254	Nanger_dama	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
255	Nanger_dama	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
256	Nanger_dama	(Alados and Escez, 1992)	(Alados and Escvez, 2021)	NA
257	Capra_nubiana	(Shargal, et al., 2008)	(Greenberg-Cohen, et al., 2010)	NA
258	Ozotoceros_bezoarticus	(Morales-Picerva, et al., 2014)	(Morales-Pisterva, et al., 2014)	NA
259	Ozotoceros_bezoarticus	(Morales-Picerva, et al., 2014)	(Morales-Pisterva, et al., 2014)	NA
260	Mus_musculus	(Drickamer, 1985)	(Rusu and Krackow, 2004)	(Drickamer, 1985)
261	Mus_musculus	(Drickamer, 1985)	(Rusu and Krackow, 2004)	(Drickamer, 1985)
262	Mus_musculus	(Drickamer, 1985)	(Rusu and Krackow, 2004)	(Drickamer, 1985)
263	Helogale_parvula	(Rood, 1980)	(Creel, 2005)	(Creel and Waser, 1994)
264	Macaca_mulatta	(Gomendio, et al. 1990)	(Deutsch and Lee, 1991)	NA
265	Macaca_mulatta	(Gomendio, et al. 1990)	(Deutsch and Lee, 1991)	NA
266	Cervus_elaphus	(Gomendio, et al. 1990)	(HALL, 2010)	(Nussey, et al., 2005)
267	Cervus_elaphus	(Gomendio, et al. 1990)	(HALL, 2010)	(Nussey, et al., 2005)
268	Macaca_mulatta	(Gomendio, et al. 1990)	(Deutsch and Lee, 1991)	NA
269	Crocuta_crocuta	(Frank et al. 1995)	(Hofer and East, 2003)	(Horn, et al., 2007)
270	Crocuta_crocuta	(Frank et al. 1995)	(Hofer and East, 2003)	(Horn, et al., 2007)
271	Crocuta_crocuta	(Frank et al. 1995)	(Hofer and East, 2003)	(Horn, et al., 2007)
272	Crocuta_crocuta	(Frank et al. 1995)	(Hofer and East, 2003)	(Horn, et al., 2007)
273	Crocuta_crocuta	(Frank et al. 1995)	(Hofer and East, 2003)	(Horn, et al., 2007)
274	Ateles_paniscus	(Symington, 1987)	(van Roosmalen 1980)	NA
275	Crocuta_crocuta	(White, 2005)	(Hofer and East, 2003)	(Horn, et al., 2007)
276	Crocuta_crocuta	(White, 2005)	(Hofer and East, 2003)	(Horn, et al., 2007)
277	Crocuta_crocuta	(White, 2005)	(Hofer and East, 2003)	(Horn, et al., 2007)
278	Petrogale_concinna	(Nelson and Goldstone, 1986)	(Nelson and Goldstone, 1986)	NA
279	Macaca_assamensis	(Heesen, et al., 2013)	(Fuertbauerr 2011)	(Moor, et al., 2020)
280	Papio_ursinus	(Busse 1982)	(HOLEKAMP and SMALE, 1991)	(Silk, et al. 1999)
281	Macaca_fuscata	(Wolfe, 1984)	(Koyama et al. 2003)	(Koyama et al. 2003)
282	Macaca_fuscata	(Wolfe, 1984)	(Koyama et al. 2003)	(Koyama et al. 2003)
283	Macaca_fuscata	(Wolfe, 1984)	(Koyama et al. 2003)	(Koyama et al. 2003)
284	Theropithecus_gelada	(le Roux, et al., 2010)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
285	Theropithecus_gelada	(le Roux, et al., 2010)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
286	Marmota_marmota	(King and Cote, 2002)	(Lardy, and Cohas, 2013)	NA
287	Marmota_marmota	(King and Cote, 2002)	(Lardy, and Cohas, 2013)	NA
288	Papio_cynocephalus	(Beehner, et al., 2006)	(Packer, et al., 1995)	(Horn, et al., 2007)
289	Papio_cynocephalus	(Beehner, et al., 2006)	(Packer, et al., 1995)	(Horn, et al., 2007)

290	Papio_cynocephalus	NA	(Packer, et al., 1995)	(Horn, et al., 2007)
291	Papio_cynocephalus	(Altmann & Alberts 2003)	(Packer, et al., 1995)	(Horn, et al., 2007)
292	Papio_ursinus	(Baniel et al. 2021)	(Holekamp and Smale, 1991)	(Baniel, et al. 2018)
293	Vulpes_vulpes	(Baker, et al., 1998)	(Baker et al., 1998)	(Iossa, et al., 2008)
294	Semnopithecus_entellus	(Dolhinow, et al., 1979)	(Borries, Sommer, and Srivastava, 1991)	NA
295	Sapajus_apella	(DiBitetti et al. 2001)	(Welker, et al., 1990)	NA
296	Miopithecus_talapoin	(Abbott, 1987)	(Abbott, 1987)	NA
297	Mungos_mungo	(Nichols,et al., 2010)	(de Luca and Ginsberg, 2001)	(Nichols, et al., 2012)
298	Mungos_mungo	(Nichols,et al., 2010)	(de Luca and Ginsberg, 2001)	(Nichols, et al., 2012)
299	Mungos_mungo	(Nichols,et al., 2010)	(de Luca and Ginsberg, 2001)	(Nichols, et al., 2012)
300	Mungos_mungo	(Nichols,et al., 2010)	(de Luca and Ginsberg, 2001)	(Nichols, et al., 2012)
301	Mungos_mungo	(de Luca and Ginsberg, 2001)	(de Luca and Ginsberg, 2001)	(Nichols, et al., 2012)
302	Canis_simensis	(Randall, et al., 2007)	(HOLEKAMP and SMALE, 1991)	(Randall, et al., 2007)
303	Procavia_capensis	(Koren and Geffen, 2009)	(Visser, Robinson, and van Vuuren, 2020)	(Visser 2013)
304	Bison_bison	(Vervaecke, Roden, and de Vries, 2005)	(Vervaecke, Roden, and de Vries, 2005)	NA
305	Bison_bison	(Vervaecke, Roden, and de Vries, 2005)	(Vervaecke, Roden, and de Vries, 2005)	NA
306	Capra_pyrenaica	(Santiago-Moreno, et al., 2007)	(Santiago et al. 2013)	NA
307	Sus_scrofa	(Meikle, et al., 2010)	(Gaillard et al. 1993)	(Meikle, et al., 2010)
308	Papio_cynocephalus	(Altmann et al. 1988)	(Packer, Collins, Sindimwo, et al., 1995)	(Horn, et al., 2007)
309	Macaca_sylvanus	(Paul & Kuester 1996)	(Paul and Kuester, 1987)	(Kuemmerli and Martin, 2008)
310	Macaca_sylvanus	(Paul & Kuester 1996)	(Paul and Kuester, 1987)	(Kuemmerli and Martin, 2008)
311	Macaca_sylvanus	NA	(Paul and Kuester, 1987)	(Kuemmerli and Martin, 2008)
312	Papio_ursinus	(Baniel et al. 2021)	(HOLEKAMP and SMALE, 1991)	(Baniel, et al., 2018)
313	Papio_ursinus	(Baniel et al. 2021)	(HOLEKAMP and SMALE, 1991)	(Baniel, et al., 2018)
314	Papio_ursinus	(McFarland, et al., 2017)	(HOLEKAMP and SMALE, 1991)	NA
315	Papio_ursinus	(McFarland, et al., 2017)	(HOLEKAMP and SMALE, 1991)	NA
316	Papio_cynocephalus	(McFarland, et al., 2017)	(Packer, Collins, Sindimwo, et al., 1995)	(Horn, et al., 2007)
317	Lama_guanicoe	(Correa, et al., 2013)	(Correa, et al., 2013)	NA
318	Bos_taurus	(Hohenbrink et al., 2012)	(Spinka et al., 2013)	NA
319	Capra_hircus	(Barroso, et al., 2000)	(Barroso, Alados, and Boza, 2000)	NA
320	Sus_scrofa	(Mendl, et al. 1995)	(Cappa, Lombardini, and Meriggi, 2021)	NA
321	Bison_bison	(Green and Rothstein, 1991)	(Vervaecke, Roden, and de Vries, 2005)	NA
322	Bison_bison	(Green and Rothstein, 1991)	(Vervaecke, Roden, and de Vries, 2005)	NA
323	Antilocapra_americana	(Byers 1997)	(Dennehy, 2001)	(Carling, et al., 2003)
324	Antilocapra_americana	(Byers 1997)	(Dennehy, 2001)	(Carling, et al., 2003)
325	Antilocapra_americana	(Byers 1997)	(Dennehy, 2001)	(Carling, et al., 2003)
326	Antilocapra_americana	(Byers 1997)	(Dennehy, 2001)	(Carling, et al., 2003)
327	Suricata_suricatta	(MacLeod & Clutton-Brock, 2013)	(Russell, Carlson, McIlrath, et al., 2004)	(Griffin, 2003)
328	Suricata_suricatta	(MacLeod & Clutton-Brock, 2013)	(Russell, Carlson, McIlrath, et al., 2004)	(Griffin, 2003)
329	Mesocricetus_auratus	(Pratt and Lisk, 1989)	(Huck, Lisk, and McKay, 1988)	(Huck, et al. 1988)
330	Mesocricetus_auratus	(Pratt and Lisk, 1989)	(Huck, Lisk, and McKay, 1988)	(Huck, et al. 1988)
331	Gorilla_beringei	(Robbins, et al., 2011)	(Robbins, Gerald-Steklis, Robbins, et al., 2005)	(Watts, 1994)
332	Gorilla_beringei	(Robbins, et al., 2011)	(Robbins, Gerald-Steklis, Robbins, et al., 2005)	(Watts, 1994)
333	Gorilla_beringei	(Robbins, et al., 2011)	(Robbins, Gerald-Steklis, Robbins, et al., 2005)	(Watts, 1994)

334	Papio_anubis	(Smuts and Nicolson, 1989)	(Johnson, 1987)	NA
335	Papio_anubis	(Smuts and Nicolson, 1989)	(Johnson, 1987)	NA
336	Papio_anubis	(Smuts and Nicolson, 1989)	(Johnson, 1987)	NA
337	Macaca_mulatta	(Small and Hrdy, 1986)	(Deutsch and Lee, 1991)	NA
338	Cercopithecus_mitis	(Roberts and Cords, 2013)	(Klass and Cords, 2015)	NA
339	Suricata_suricatta	(Macdonald and Doolan, 1997)	(Russell, Carlson, McIlrath, et al., 2004)	NA
340	Microtus_arvalis	(Dobly, 2008)	(Dobly, 2008)	(Dobly, 2008)
341	Microtus_ochrogaster	(Wolff, et al., 2001)	(Wolff, Dunlap, and Ritchhart, 2001)	(Wolff, et al., 2001)
342	Microtus_pinetorum	(Wolff, et al., 2001)	(Wolff, Dunlap, and Ritchhart, 2001)	(Wolff, et al., 2001)
343	Macaca_mulatta	(Meikle, et al. 1984)	(Deutsch and Lee, 1991)	NA
344	Macaca_sylvanus	(Paul and Thommen, 1984)	(Paul and Kuester, 1987)	NA
345	Macaca_sylvanus	(Paul and Thommen, 1984)	(Paul and Kuester, 1987)	NA
346	Macaca_sylvanus	(Paul and Thommen, 1984)	(Paul and Kuester, 1987)	NA
347	Equus_quagga	(Schilder and Boer, 1987)	(Lloyd and Rasa, 1994)	NA
348	Equus_quagga	(Schilder and Boer, 1987)	(Lloyd and Rasa, 1994)	NA
349	Macaca_mulatta	(Berman, 1988)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
350	Macaca_arctoides	(Rhine, 1994)	(HOLEKAMP and SMALE, 1991)	NA
351	Papio_cynocephalus	(Rhine, et al., 1992)	(Packer, Collins, Sindimwo, et al., 1995)	(Wasser & Starling, 1988)
352	Canis_latrans	(Gese 2004)	(Gese 2004)	NA
353	Canis_latrans	(Gese 2004)	(Gese 2004)	NA
354	Macaca_mulatta	(Brent, et al. 2017)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
355	Suricata_suricatta	(Cram,et al., 2018)	(Russell, Carlson, McIlrath, et al., 2004)	(Griffin, 2003)
356	Fukomys_mechowi	(Dammann, et al., 2011)	(Wallace and Bennett, 1998)	(Dammann, et al., 2011)
357	Papio_ursinus	(Silk, et al. 2010)	(HOLEKAMP and SMALE, 1991)	(Silk, et al., 1999)
358	Papio_cynocephalus	(Archie, et al., 2014)	(Packer, Collins, Sindimwo, et al., 1995)	(Horn, et al., 2007)
359	Crocuta_crocuta	(Watts, et al., 2009)	(Hofer and East, 2003)	(Horn, et al., 2007)
360	Crocuta_crocuta	(Strauss and Holekamp, 2019)	(Hofer and East, 2003)	(Horn, et al., 2007)
361	Propithecus_verreauxi	(Kubzdela 1998)	(Kubzdela 1998)	(Lawler, et al. 2003)
362	Propithecus_verreauxi	(Kubzdela 1998)	(Kubzdela 1998)	(Lawler, et al. 2003)
363	Propithecus_verreauxi	(Kubzdela 1998)	(Kubzdela 1998)	(Lawler, et al. 2003)
364	Macaca_mulatta	(Blomquist, et al., 2010)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
365	Macaca_mulatta	(Blomquist, et al., 2010)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
366	Macaca_mulatta	(Blomquist, et al., 2010)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
367	Papio_ursinus	(Ron, Henzi, and Motro, 1996)	(HOLEKAMP and SMALE, 1991)	NA
368	Papio_ursinus	(Ron, Henzi, and Motro, 1996)	(HOLEKAMP and SMALE, 1991)	NA
369	Papio_ursinus	(Ron, Henzi, and Motro, 1996)	(HOLEKAMP and SMALE, 1991)	NA
370	Macaca_mulatta	(Simpson and Simpson, 1982)	(Deutsch and Lee, 1991)	NA
371	Macaca_fuscata	(Koyama, et al. 1992)	(Koyama et al. 2003)	(Koyama et al. 2003)
372	Macaca_fuscata	(Koyama, et al. 1992)	(Borries, Sommer, and Srivastava, 1991)	(Koyama et al. 2003)
373	Macaca_mulatta	(Maestripieri, 2001)	(Deutsch and Lee, 1991)	(Bernstein & Ehardt, 1986)
374	Macaca_mulatta	(Maestripieri, 2001)	(Deutsch and Lee, 1991)	(Bernstein & Ehardt, 1986)
375	Semnopithecus_schistaceus	(Vries et al., 2016)	(VRIES, KOENIG, and BORRIES, 2016)	NA
376	Semnopithecus_schistaceus	(Vries et al., 2016)	(VRIES, KOENIG, and BORRIES, 2016)	NA
377	Semnopithecus_schistaceus	(Vries et al., 2016)	(VRIES, KOENIG, and BORRIES, 2016)	NA

378	Mungos_mungo	(Sanderson, et al. 2015)	(de Luca and Ginsberg, 2001)	(Nichols, et al., 2012)
379	Mungos_mungo	(Sanderson, et al. 2015)	(de Luca and Ginsberg, 2001)	(Nichols, et al., 2012)
380	Mesocricetus_auratus	(Chelini, et al., 2011)	(Huck, Lisk, and McKay, 1988)	(Pratt and Lisk, 1989)
381	Mesocricetus_auratus	(Chelini, et al., 2011)	(Huck, Lisk, and McKay, 1988)	(Pratt and Lisk, 1989)
382	Mesocricetus_auratus	(Chelini, et al., 2011)	(Huck, Lisk, and McKay, 1988)	(Pratt and Lisk, 1989)
383	Macaca_mulatta	(Liu, et al. 2018)	(Deutsch and Lee, 1991)	NA
384	Macaca_mulatta	(Liu, et al. 2018)	(Deutsch and Lee, 1991)	NA
385	Macaca_mulatta	(Liu, et al. 2018)	(Deutsch and Lee, 1991)	NA
386	Macaca_mulatta	(Liu, et al. 2018)	(Deutsch and Lee, 1991)	NA
387	Ceratotherium_simum	(Metrione and Harder, 2011)	(Metrione, Penfold, and Waring, 2007)	(Metrione and Harder, 2011)
388	Cebus_capucinus	(Kalbitzer, et al. 2017)	(Fedigan and Bergstrom, 2010)	NA
389	Canis_lupus	(Cafazzo,et al., 2014)	(Cafazzo, Valsecchi, Bonanni, and Natoli, 2010)	NA
390	Macaca_nigra	(Kerhoas, et al., 2014)	(Duboscq, et al., 2017)	NA
391	Equus_caballus	(Cameron, et al., 2009)	(Sinderbrand 2011)	(Cameron, et al., 2009)
392	Equus_caballus	(Cameron, et al., 2009)	(Sinderbrand 2011)	(Cameron, et al., 2009)
393	Odocoileus_virginianus	(Michel, et al., 2015)	(Townsend and Bailey, 1981)	NA
394	Papio_cynocephalus	(Archie, et al., 2014)	(Packer, Collins, Sindimwo, et al., 1995)	(Horn, et al., 2007)
395	Macaca_mulatta	(Ellis, et al., 2019)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
396	Cervus_elaphus	(Ceacero, et al., 2018)	(HALL, 2010)	(Ceacero, et al., 2018)
397	Cervus_elaphus	(Ceacero, et al., 2018)	(HALL, 2010)	(Ceacero, et al., 2007)
398	Cervus_elaphus	(Ceacero, et al., 2018)	(HALL, 2010)	(Ceacero, et al., 2007)
399	Cervus_elaphus	(Ceacero, et al., 2018)	(HALL, 2010)	(Ceacero, et al., 2007)
400	Bos_taurus	(Spinka, and Ceacero, 2017)	(Spinka, et al., 2013)	NA
401	Bos_taurus	(Spinka, and Ceacero, 2017)	(Spinka, et al., 2013)	NA
402	Bos_taurus	(Spinka, and Ceacero, 2017)	(Spinka, et al., 2013)	NA
403	Bos_taurus	(Spinka, and Ceacero, 2017)	(Spinka, et al., 2013)	NA
404	Bos_taurus	(Spinka, and Ceacero, 2017)	(Spinka, et al., 2013)	NA
405	Oryctolagus_cuniculus	(Mykytowycz, 1959)	(von Holst, Hutzelmeyer, Kaetzke, et al., 2002)	NA
406	Oryctolagus_cuniculus	(Mykytowycz, 1959)	(von Holst, Hutzelmeyer, Kaetzke, et al., 2002)	NA
407	Heterocephalus_glaber	(Jarvis, 1981)	(Clarke and Faulkes, 1997)	NA
408	Canis_rufus	(Zimen, 2010)	(Sparkman, et al. 2010)	NA
409	Canis_rufus	(Zimen, 2010)	(Sparkman, et al. 2010)	NA
410	Lycaon_pictus	(Malcolm and Marten, 1982)	(Spiering, Somers, Maldonado, et al., 2009)	(Girman, et al., 1997)
411	Lycaon_pictus	(Malcolm and Marten, 1982)	(Spiering, Somers, Maldonado, et al., 2009)	(Girman, et al., 1997)
412	Macaca_mulatta	(Anderson and Simpson, 1979)	(Deutsch and Lee, 1991)	NA
413	Macaca_fuscata	(Sugiyama and Ohsawa, 1982)	(Koyama et al. 2003)	NA
414	Macaca_fuscata	(Sugiyama and Ohsawa, 1982)	(Koyama et al. 2003)	NA
415	Macaca_fuscata	(Sugiyama and Ohsawa, 1982)	(Koyama et al. 2003)	NA
416	Macaca_fuscata	(Sugiyama and Ohsawa, 1982)	(Koyama et al. 2003)	NA
417	Macaca_mulatta	(Stucki, Dow, and Sade, 1991)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
418	Macaca_mulatta	(Bercovitch and Berard, 1993)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
419	Theropithecus_gelada	(Dunbar, 1980)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
420	Theropithecus_gelada	(Dunbar, 1980)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
421	Theropithecus_gelada	(Dunbar, 1980)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)

422	Theropithecus_gelada	(Dunbar, 1980)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
423	Theropithecus_gelada	(Dunbar, 1980)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
424	Theropithecus_gelada	(Dunbar, 1985)	(Dunbar, 1980)	(Snyder-Mackler, et al., 2014)
425	Callithrix_jacchus	(Rothe, 2010)	(Digby, 1995)	(Rothe, 2010)
426	Callithrix_jacchus	(Arruda, et al., 2005)	(Digby, 1995)	(Nievergelt et al. 2000)
427	Callithrix_jacchus	(Arruda, et al., 2005)	(Digby, 1995)	(Nievergelt et al. 2000)
428	Callithrix_jacchus	(Abbott, et al., 1981)	(Digby, 1995)	(Abbott, et al., 1981)
429	Erythrocebus_patas	(Loy, 1981)	(Isbell & Pruetz 1988)	NA
430	Saimiri_sciureus	(Coe, et al., 1981)	(Mitchell, Boinski, and van Schaik, 1991)	NA
431	Saimiri_sciureus	(Coe, et al., 1981)	(Mitchell, Boinski, and van Schaik, 1991)	NA
432	Saimiri_sciureus	(Coe, et al., 1981)	(Mitchell, Boinski, and van Schaik, 1991)	NA
433	Chlorocebus_aethiops	(Wrangham, 1981)	(HOLEKAMP and SMALE, 1991)	NA
434	Macaca_mulatta	(Blomquist, 2009)	(Deutsch and Lee, 1991)	(Chepko-Sade & Olivier, 1979)
435	Pan_troglodytes	(Boesch, 1997)	(Wittig et al. 2003)	(Lukas et al., 2005)
436	Pan_troglodytes	(Boesch, 1997)	(Wittig et al. 2003)	(Lukas et al., 2005)
437	Lemur_catta	(Nunn and Pereira, 2000)	(Taylor and Sussman, 1985)	(Taylor and Sussman, 1985)
438	Macaca_fascicularis	(Schaik, et al., 1989)	(Wittig et al. 2003)	NA
439	Pan_troglodytes	(Stanton, et al., 2017)	NA	(Vigilant, et al., 2001)
440	Pan_troglodytes	(Stanton, et al., 2017)	(Wittig et al. 2003)	(Vigilant, et al., 2001)
441	Gorilla_beringei	(Eckardt, et al., 2016)	(Robbins, Gerald-Steklis, Robbins, et al., 2005)	(Watts, 1994)
442	Macaca_sylvanus	(Modolo and Martin, 2007)	(Paul and Kuester, 1987)	(Kuemmerli and Martin, 2008)
443	Lophocebus_albigena	(Arlet, et al., 2014)	(Arlet, et al., 2014)	NA
444	Trachypithecus_phayrei	(Borries, et al., 2004)	(Koenig, Larney, Lu, and Borries, 2004)	(Larney 2013)

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