

This information accompanies the article:

Watson, C.F.I. & Caldwell, C.A. (2009). Understanding behavioral traditions in primates: are current experimental approaches too focused on food? *International Journal of Primatology*, 30, 143-167.

**Appendix I (Supplementary Information).** The full list of articles reviewed for the survey.

1. Agostini, I. & Visalberghi, E. (2005). Social influences on the acquisition of sex-typical foraging patterns by juveniles in a group of wild tufted capuchin monkeys (*Cebus nigritus*). *American Journal of Primatology*, *65*, 335-351.
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**Appendix II (Supplementary Information):** The full list of primate cultural variants cited in the literature surveyed.

<b>No.</b>	<b>Taxon</b>	<b>Behaviour</b>	<b>Main citation</b>	<b>Classification</b>
1	<i>Pan</i>	pestle pound	Whiten et al. (2001)	food: tool use
2	<i>Pan</i>	ant-dip-single	Whiten et al. (2001)	food: tool use
3	<i>Pan</i>	ant-dip-wipe	Whiten et al. (2001)	food: tool use
4	<i>Pan</i>	ant-fish (arboreal)	Whiten et al. (2001)	food: tool use
5	<i>Pan</i>	ant-club	Hicks et al. (2005)	food: tool use
6	<i>Pan</i>	nut-crack: stone hammer on stone anvil	Whiten et al. (2001)	food: tool use
7	<i>Pan</i>	nut-crack: stone hammer on wood anvil	Whiten et al. (2001)	food: tool use
8	<i>Pan</i>	nut-crack: wood hammer on wood anvil	Whiten et al. (2001)	food: tool use
9	<i>Pan</i>	nut-crack: wood hammer on stone anvil	Whiten et al. (2001)	food: tool use
10	<i>Pan</i>	nut-crack: <i>Elaeis guineensis</i>	Humle & Matsuzawa (2001)	food: tool use
11	<i>Pan</i>	nut-crack: <i>Panda oleosa</i>	Humle & Matsuzawa (2001)	food: tool use
12	<i>Pan</i>	nut-crack: <i>Carapa procera</i>	Humle & Matsuzawa (2001)	food: tool use
13	<i>Pan</i>	nut-crack: <i>Coula edulis</i>	Humle & Matsuzawa (2001)	food: tool use
14	<i>Pan</i>	nut-crack: other (e.g. ground)	Whiten et al. (2001)	food: tool use
15	<i>Pan</i>	nut-crack: use of anvil prop.	Humle & Matsuzawa (2001)	food: tool use
16	<i>Pan</i>	termite-fish: leaf midrib	Whiten et al. (2001)	food: tool use
17	<i>Pan</i>	termite-fish: non-leaf materials	Whiten et al. (2001)	food: tool use



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18	<i>Pan</i>	termite-dig	Humle & Matsuzawa (2004)	food: tool use
19	<i>Pan</i>	termite-puncture	Heaton & Pickering (2006)	food: tool use
20	<i>Pan</i>	brush-sticks	Nishimura et al. (2003)	food: tool use
21	<i>Pan</i>	tool-set for termite harvest	Whiten (2005)	food: tool use
22	<i>Pan</i>	expel/stir: insects	Whiten et al. (2001)	food: tool use
23	<i>Pan</i>	bee-probe	Whiten et al. (2001)	food: tool use
24	<i>Pan</i>	honey-hammer/club	Hicks et al. (2005)	food: tool use
25	<i>Pan</i>	honey-dip	Boesch & Tomasello (1998)	food: tool use
26	<i>Pan</i>	drink water: stick/twig probe	Matusaka et al. (2006)	food: tool use
27	<i>Pan</i>	drink water: stem sponge	Matsuzaka et al. (2006)	food: tool use
28	<i>Pan</i>	drink water: moss sponge	Matsuzaka et al. (2006)	food: tool use
29	<i>Pan</i>	drink water: leaf-folding	Tonooka (2001)	food: tool use
30	<i>Pan</i>	drink water: leaf sponge	Matusaka et al. (2006)	food: tool use
31	<i>Pan</i>	drink water: leaf spoon	Tonooka (2001)	food: tool use
32	<i>Pan</i>	drink water: timing of leaf modification: leaf sponge	Matsuzaka et al. (2006)	food: tool use
33	<i>Pan</i>	drink water: leaf selectivity	Tonooka et al. (2001)	food: tool use
34	<i>Pan</i>	drink water: 'wedges' of fruit	Tonooka et al. (2001)	food: tool use
35	<i>Pan</i>	algae-fish/scoop	Boesch & Tomasello (1998)	food: tool use
36	<i>Pan</i>	lever open: termite mound entrance	Whiten et al. (2001)	food: tool use
37	<i>Pan</i>	hook stick	Boesch & Tomasello (1998)	food: tool use
38	<i>Pan</i>	gum gouge	Boesch & Tomasello (1998)	food: tool use
39	<i>Pan</i>	marrow-pick	Whiten et al. (2001)	food: tool use
40	<i>Pan</i>	stick dig: decayed tree trunk	Nishimura et al. (2003)	food: tool use
41	<i>Pan</i>	ectoparasite: leaf-fold	Boesch (2003)	food: tool use

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42	<i>Pongo</i>	leaf gloves	van Schaik et al. (2003)	food: tool use
43	<i>Pongo</i>	tree-hole: tool use	van Schaik et al. (2003)	food: tool use
44	<i>Pongo</i>	seed extraction: tool use	van Schaik et al. (2003)	food: tool use
45	<i>Pongo</i>	branch scoop	van Schaik et al. (2003)	food: tool use
46	<i>Cebus</i>	leaf wrap: <i>Autmersis</i> caterpillar	Panger et al. (2002)	food: tool use
47	<i>Cebus</i>	nut-crack: stone hammer (on stone or wood anvil): <i>Cebus libidinosus</i>	Fragaszy et al. (2004)	food: tool use
48	<i>Cebus</i>	nut-crack: stone hammer & anvil: <i>Cebus apella</i>	Otoni et al (2005)	food: tool use
49	<i>Cebus</i>	digging with stones	Moura (2007)	food: tool use
50	<i>Macaca</i>	oyster-crack: stone hammer on rock anvil	Malaiivijitnond et al. (2007)	food: tool use
51	<i>Ceropithecus</i>	<i>Acacia</i> pod dip: in tree exudate	Hosey et al. (1997)	food: tool use
52	<i>Pan</i>	food-pound: on wood	Whiten et al. (2001)	food: foraging/food processing
53	<i>Pan</i>	food-pound: on other (e.g. stone)	Whiten et al. (2001)	food: foraging/food processing
54	<i>Pan</i>	food-pound: <i>Strychnos</i>	Humle & Matsuzawa (2001)	food: foraging/food processing
55	<i>Pan</i>	ant-fishing perches	Hicks et al. (2005)	food: foraging/food processing
56	<i>Pan</i>	surface-dig (driver ant grubs)	Boesch (2003)	food: foraging/food processing
57	<i>Pan</i>	deep-dig (driver ant grubs)	Boesch (2003)	food: foraging/food processing
58	<i>Pan</i>	ectoparasite(?): leaf-groom	Whiten et al. (2001)	food: foraging/food processing
59	<i>Pan</i>	ectoparasite: leaf-inspect	Whiten et al. (2001)	food: foraging/food processing
60	<i>Pan</i>	ectoparasite: leaf-squash	Whiten et al. (2001)	food: foraging/food processing
61	<i>Pan</i>	ectoparasite: index-hit (squash on arm)	Whiten et al. (2001)	food: foraging/food processing

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62	<i>Pan</i>	ectoparasite: index to palm	Nakamura & Nishida (2006)	food: foraging/food processing
63	<i>Pongo</i>	bouquet feeding	van Schaik et al. (2003)	food: foraging/food processing
64	<i>Pongo</i>	nest destruction	van Schaik et al. (2003)	food: foraging/food processing
65	<i>Pongo</i>	dead twig sucking	van Schaik et al. (2003)	food: foraging/food processing
66	<i>Gorilla</i>	pattern of ant consumption/ seasonal ant eating	Ganas & Robbins (2004) (number 53 in Appendix I)	food: foraging/food processing
67	<i>Gorilla</i>	folding nettle leaf blades	Ganas & Robbins (2004) (number 54 in Appendix I)	food: foraging/food processing
68	<i>Cebus</i>	army ant following	Panger et al. (2002)	food: foraging/food processing
69	<i>Cebus</i>	fulcrum: <i>Pithecellobium saman</i>	Panger et al. (2002)	food: foraging/food processing
70	<i>Cebus</i>	rub: husk: <i>Sterculia apetala</i>	Panger et al. (2002)	food: foraging/food processing
71	<i>Cebus</i>	pound: <i>Randia spp.</i>	Panger et al. (2002)	food: foraging/food processing
72	<i>Cebus</i>	pound: <i>Cecropia peltata</i>	Panger et al. (2002)	food: foraging/food processing
73	<i>Cebus</i>	rub: <i>Cecropia peltata</i>	Panger et al. (2002)	food: foraging/food processing
74	<i>Cebus</i>	pound: <i>Tabebuia ochracea</i>	Panger et al. (2002)	food: foraging/food processing
75	<i>Cebus</i>	rub: <i>Tabebuia ochracea</i>	Panger et al. (2002)	food: foraging/food processing
76	<i>Cebus</i>	rub: <i>Pithecellobium saman</i>	Panger et al. (2002)	food: foraging/food processing
77	<i>Cebus</i>	rub: <i>Acacia spp.</i> fruit and thorns	Panger et al. (2002)	food: foraging/food processing
78	<i>Cebus</i>	rub: annona reticulata	Panger et al. (2002)	food: foraging/food processing
79	<i>Cebus</i>	pound: annona reticulata	Panger et al. (2002)	food: foraging/food processing
80	<i>Cebus</i>	pound: <i>Apeiba tibouru</i>	Panger et al. (2002)	food: foraging/food processing
81	<i>Cebus</i>	pound: <i>Bactris minor</i>	Panger et al. (2002)	food: foraging/food processing
82	<i>Cebus</i>	pound: <i>Genipa amaericana</i>	Panger et al. (2002)	food: foraging/food processing
83	<i>Cebus</i>	rub: <i>Genipa amaericana</i>	Panger et al. (2002)	food: foraging/food processing
84	<i>Cebus</i>	pound: <i>Mangifera indica</i>	Panger et al. (2002)	food: foraging/food processing

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85	<i>Cebus</i>	pound: <i>Quercus spp.</i>	Panger et al. (2002)	food: foraging/food processing
86	<i>Cebus</i>	pound: insects in branches	Panger et al. (2002)	food: foraging/food processing
87	<i>Cebus</i>	rub: <i>Stemmandenia donnell-smithii</i>	Panger et al. (2002)	food: foraging/food processing
88	<i>Cebus</i>	tap: <i>Stemmandenia donnell-smithii</i>	Panger et al. (2002)	food: foraging/food processing
89	<i>Cebus</i>	pound: vertebrate prey	Panger et al. (2002)	food: foraging/food processing
90	<i>Cebus</i>	rub: vertebrate prey	Panger et al. (2002)	food: foraging/food processing
91	<i>Cebus</i>	skilled pound	O'Malley & Fedigan (2005)	food: foraging/food processing
92	<i>Cebus</i>	squirrel-killing technique: neck-bite	Rose et al. (2003)	food: foraging/food processing
93	<i>Cebus</i>	squirrel hunting technique: active search	Rose et al. (2003)	food: foraging/food processing
94	<i>Cebus</i>	squirrel hunting technique: rearguard intercept	Rose et al. (2003)	food: foraging/food processing
95	<i>Cebus</i>	squirrel hunting technique: grab & flail	Rose et al. (2003)	food: foraging/food processing
96	<i>Cebus</i>	squirrel hunting technique: launch & pin	Rose et al. (2003)	food: foraging/food processing
97	<i>Cebus</i>	coati nest raiding technique: division of effort	Rose et al. (2003)	food: foraging/food processing
98	<i>Cebus</i>	coati nest raiding technique: cause female to move pups	Rose et al. (2003)	food: foraging/food processing
99	<i>Cebus</i>	coati nest raiding technique: force pups from nest and take on ground	Rose et al. (2003)	food: foraging/food processing
100	<i>Cebus</i>	coati nest raiding technique: exhaust larger pups by attempted drowning	Rose et al. (2003)	food: foraging/food processing
101	<i>Macaca</i>	potato washing	Matsuzawa (2003)	food: foraging/food processing
102	<i>Macaca</i>	wheat placer mining	Matsuzawa (2003)	food: foraging/food processing
103	<i>Macaca</i>	"give-me-some" gesture	Perry & Manson (2003)	food: foraging/food processing
104	<i>Macaca</i>	root washing in rivers	McGrew (1998)	food: foraging/food processing

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105	<i>Macaca</i>	apple washing	Reader (2004)	food: foraging/food processing
106	<i>Macaca</i>	louse egg-handling techniques	Tanaka (1998)	food: foraging/food processing
107	<i>Macaca</i>	enter water to catch octopus & eat	McGrew (1998)	food: foraging/food processing
108	<i>Macaca</i>	food-washing	Perry & Manson (2003)	food: foraging/food processing
109	<i>Pan</i>	fresh <i>Strychnos</i> eating	Boesch (2003)	food: food choice
110	<i>Pan</i>	mature pith chew	Boesch (2003)	food: food choice
111	<i>Pan</i>	winged <i>Thoracotermes</i> sp. eating	Boesch (2003)	food: food choice
112	<i>Pan</i>	lemon eating	Reader (2004)	food: food choice
113	<i>Pan</i>	mango eating	Reader (2004)	food: food choice
114	<i>Pan</i>	leaf swallowing: medicinal plant use (e.g. <i>Aspilia</i> )	Huffman (1997)	food: food choice
115	<i>Pan</i>	leaf swallowing: <i>Polycephalum capitatum</i>	Humle & Matsuzawa (2001)	food: food choice
116	<i>Pan</i>	leaf swallowing: <i>Ficus mucosa</i>	Humle & Matsuzawa (2001)	food: food choice
117	<i>Pan</i>	eating: oil palm fruit	Humle & Matsuzawa (2004)	food: food choice
118	<i>Pan</i>	eating: oil palm petiole/pith	Humle & Matsuzawa (2004)	food: food choice
119	<i>Pan</i>	eating: oil palm flower	Humle & Matsuzawa (2004)	food: food choice
120	<i>Pan</i>	eating: oil palm resin	Humle & Matsuzawa (2004)	food: food choice
121	<i>Pan</i>	eating: oil palm heart	Humle & Matsuzawa (2004)	food: food choice
122	<i>Pan</i>	eating: oil palm fibres of dead wood	Humle & Matsuzawa (2004)	food: food choice
123	<i>Pongo</i>	slow loris eating	van Schaik et al. (2003)	food: food choice

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124	<i>Gorilla</i>	weaver ant eating ( <i>Oecophylla longinoda</i> )	Deblauwe et al. (2003)	food: food choice
125	<i>Gorilla</i>	fungus farming termite ( <i>Cubitermes sp.</i> ) eating: ignored	Deblauwe et al. (2003)	food: food choice
126	<i>Gorilla</i>	eating: <i>Crematogaster sp.</i>	Deblauwe et al. (2003)	food: food choice
127	<i>Gorilla</i>	eating: <i>Macrtermes muelleri</i>	Deblauwe et al. (2003)	food: food choice
128	<i>Gorilla</i>	eating: <i>Camponotus vividus</i>	Deblauwe et al. (2003)	food: food choice
129	<i>Gorilla</i>	eating: <i>Camponotus brutus</i>	Deblauwe et al. (2003)	food: food choice
130	<i>Gorilla</i>	eating: <i>Pachycondyla tarsata</i>	Deblauwe et al. (2003)	food: food choice
131	<i>Macaca</i>	eating: dead fish on shore	McGrew (1998)	food: food choice
132	<i>Macaca</i>	frog and lizard catching & eating	McGrew (1998)	food: food choice
133	<i>Pan</i>	club	Whiten et al. (2001)	non-food: social/communicative
134	<i>Pan</i>	aimed-throw	Whiten et al. (2001)	non-food: social/communicative
135	<i>Pan</i>	rain dance	Whiten et al. (2001)	non-food: social/communicative
136	<i>Pan</i>	grooming hand-clasp: palm-to-palm	McGrew et al. (2001)	non-food: social/communicative
137	<i>Pan</i>	grooming hand-clasp: non-palm-to-palm	McGrew et al. (2001)	non-food: social/communicative
138	<i>Pan</i>	knuckle-knock	Whiten et al. (2001)	non-food: social/communicative
139	<i>Pan</i>	branch-slap	Whiten et al. (2001)	non-food: social/communicative
140	<i>Pan</i>	leaf-strip	Whiten et al. (2001)	non-food: social/communicative
141	<i>Pan</i>	leaf-clip: fingers	Whiten et al. (2001)	non-food: social/communicative
142	<i>Pan</i>	leaf-clip: mouth: before buttress drumming/to signal frustration	Boesch (2003)	non-food: social/communicative
143	<i>Pan</i>	leaf-clip: mouth: play context	Boesch (2003)	non-food: social/communicative
144	<i>Pan</i>	leaf-clip: mouth: courtship	Boesch (2003)	non-food: social/communicative
145	<i>Pan</i>	shrub-bend	Whiten et al. (2001)	non-food: social/communicative

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146	<i>Pan</i>	stem pull-through	Whiten et al. (2001)	non-food: social/communicative
147	<i>Pan</i>	branch din	Whiten et al. (2001)	non-food: social/communicative
148	<i>Pan</i>	social scratch	Nakamura et al. (2000)	non-food: social/communicative
149	<i>Pan</i>	leaf-pile pulling	Nishida et al. (2003)	non-food: social/communicative
150	<i>Pan</i>	missile throw	Boesch & Tomasello (1998)	non-food: social/communicative
151	<i>Pan</i>	branch haul	Boesch & Tomasello (1998)	non-food: social/communicative
152	<i>Pan</i>	play start	Boesch & Tomasello (1998)	non-food: social/communicative
153	<i>Pan</i>	build ground-nest: play initiation	Boesch (2003)	non-food: social/communicative
154	<i>Pan</i>	build coarse ground-nest: attraction of sexually active females	Boesch (2003)	non-food: social/communicative
155	<i>Pan</i>	dialectical variation: phrase structure in 'long' calls	McGrew (1998)	non-food: social/communicative
156	<i>Pan</i>	mutual genital touch	Nakamura & Nishida (2006)	non-food: social/communicative
157	<i>Pan</i>	heel tap	Nakamura & Nishida (2006)	non-food: social/communicative
158	<i>Pan</i>	sputter	Nakamura & Nishida (2006)	non-food: social/communicative
159	<i>Pan</i>	throw splash	Nakamura & Nishida (2006)	non-food: social/communicative
160	<i>Pan</i>	catch & toy with hyraxes ( <i>Dendrohyrax dorsalis</i> )	Matsuzawa (2003)	non-food: social/communicative
161	<i>Pongo</i>	snag riding	van Schaik et al. (2003)	non-food: social/communicative
162	<i>Pongo</i>	kiss-squeak: leaves	van Schaik et al. (2003)	non-food: social/communicative
163	<i>Pongo</i>	kiss-squeak: hands	van Schaik et al. (2003)	non-food: social/communicative
164	<i>Pongo</i>	leaf-wipe: kiss-squeak context	van Schaik et al. (2003)	non-food: social/communicative
165	<i>Pongo</i>	play nests	van Schaik et al. (2003)	non-food: social/communicative

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166	<i>Pongo</i>	raspberry	van Schaik et al. (2003)	non-food: social/communicative
167	<i>Pongo</i>	symmetric scratch	van Schaik et al. (2003)	non-food: social/communicative
168	<i>Pongo</i>	throat scrape	van Schaik et al. (2006)	non-food: social/communicative
169	<i>Pongo</i>	snag crashing	van Schaik et al. (2003)	non-food: social/communicative
170	<i>Pongo</i>	nest smack	van Schaik et al. (2006)	non-food: social/communicative
171	<i>Pongo</i>	twig biting	van Schaik et al. (2003)	non-food: social/communicative
172	<i>Cebus</i>	hand sniffing	Perry et al. (2003)	non-food: social/communicative
173	<i>Cebus</i>	sucking on body parts	Perry et al. (2003)	non-food: social/communicative
174	<i>Cebus</i>	finger-in-mouth game	Perry et al. (2003)	non-food: social/communicative
175	<i>Cebus</i>	hair-passing game	Perry et al. (2003)	non-food: social/communicative
176	<i>Cebus</i>	toy game	Perry et al. (2003)	non-food: social/communicative
177	<i>Cebus</i>	spider monkey grooming	Rose et al. (2003)	non-food: social/communicative
178	<i>Cebus</i>	tolerance of indigo snake ( <i>Drymarchon corais</i> )	Rose et al. (2003)	non-food: social/communicative
179	<i>Cebus</i>	mobbing of large spectacled owl	Rose et al. (2003)	non-food: social/communicative
180	<i>Cebus</i>	tolerance of boa constrictors <1m long (no mob/alarm call)	Rose et al. (2003)	non-food: social/communicative
181	<i>Cebus</i>	juveniles drop branches, bark, bounce & display at caiman (partly a game?)	Rose et al. (2003)	non-food: social/communicative
182	<i>Cebus</i>	affiliative interaction with howler monkeys	Rose et al. (2003)	non-food: social/communicative
183	<i>Cebus</i>	stone-banging	Moura (2007)	non-food: social/communicative
184	<i>Cebus</i>	club	Van Schaik & Pradhan (2003)	non-food: social/communicative
185	<i>Macaca</i>	bathing behaviour	McGrew (1998)	non-food: social/communicative
186	<i>Macaca</i>	grooming contact calls	McGrew (1998)	non-food: social/communicative
187	<i>Macaca</i>	courtship posture: female mounts male	McGrew (1998)	non-food: social/communicative

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188	<i>Alouatta</i>	hand-holding behaviour	Brockett et al. (2005)	non-food: social/communicative
189	<i>Pan</i>	self-tickle	Whiten et al. (2001)	non-food: comfort/hygiene
190	<i>Pan</i>	leaf-napkin	Whiten et al. (2001)	non-food: comfort/hygiene
191	<i>Pan</i>	fly-whisk	Whiten et al. (2001)	non-food: comfort/hygiene
192	<i>Pan</i>	leaf-dab	Whiten et al. (2001)	non-food: comfort/hygiene
193	<i>Pan</i>	seat-vegetation	Whiten et al. (2001)	non-food: comfort/hygiene
194	<i>Pan</i>	leafy-twigs as sandals	McGrew (1998)	non-food: comfort/hygiene
195	<i>Pan</i>	ground nest	Boesch & Tomasello (1998)	non-food: comfort/hygiene
196	<i>Pan</i>	postcoital penis cleaning	O'Hara & Lee (2006)	non-food: comfort/hygiene
197	<i>Pongo</i>	leaf napkin	van Schaik et al. (2003)	non-food: comfort/hygiene
198	<i>Pongo</i>	branch as swatter	van Schaik et al. (2003)	non-food: comfort/hygiene
199	<i>Pongo</i>	bunk nest/rain hat	van Schaik et al. (2003)	non-food: comfort/hygiene
200	<i>Pongo</i>	sun cover	van Schaik et al. (2003)	non-food: comfort/hygiene
201	<i>Pongo</i>	hide under nest	van Schaik et al. (2003)	non-food: comfort/hygiene
202	<i>Pongo</i>	scratch stick	van Schaik et al. (2003)	non-food: comfort/hygiene
203	<i>Pongo</i>	autoerotic tool	van Schaik et al. (2003)	non-food: comfort/hygiene
204	<i>Pongo</i>	carry <i>Camptosperma</i> leaves: for nest	van Schaik et al. (2006)	non-food: comfort/hygiene
205	<i>Pongo</i>	branch cushion	van Schaik et al. (2006)	non-food: comfort/hygiene
206	<i>Gorilla</i>	use of stick: to test water depth	Breuer et al. (2005)	non-food: comfort/hygiene
207	<i>Gorilla</i>	use of branch as bridge	Breuer et al. (2005)	non-food: comfort/hygiene
208	<i>Macaca</i>	masturbation	McGrew (1998)	non-food: comfort/hygiene
209	<i>Macaca</i>	stone handling	Nahallage & Huffman (2007)	non-food: other

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