

CHAPTER 15: MATERNAL LOVE, FOUNDATION
FOR EXTENDED ALTRUISM?

1. Batson, C. D. (2011). *Altruism in Humans*, *op. cit.*, p. 4.
2. *Ibid.*
3. Darwin, C. (1871). *Op. cit.*, p. 308. In fact, parental care, regarded as one of the main sources of empathy, is itself based on more ancient instincts that preceded the ability to feel empathy, since we also observe it among animal species whose rudimentary nervous system does not allow complex cognitive or emotional faculties. Scorpion mothers, for instance, carry their young on their backs, even though that considerably slows down their movements, thereby exposing them to the danger of being captured by a predator. Shaffer, L. R., & Formanowicz, J. (1996), A cost of viviparity and parental care in scorpions: Reduced sprint speed and behavioural compensation. *Animal Behaviour*, 51(5), 1017–1024.
4. Bell, D. C. (2001). Evolution of parental caregiving. *Personality and Social Psychology Review*, 5(3), 216–229.
5. McDougall, W., *An Introduction to Social Psychology*, Methuen 1908. I owe these various clarifications to Daniel Batson. See also Batson, C. D (1991). *Op. cit.*, Chapters 2 and 3.
6. Sober, E., in Davidson, R. J., & Harrington, A., *Visions of Compassion: Western Scientists and Tibetan Buddhists Examine Human Nature*, Oxford University Press, 2002, p. 99, and Sober, E., & Wilson, D. S. (1998). *Op. cit.*; Waal, F. B. M. de, *Le Bon Singe: Les bases naturelles de la morale*, Bayard, 1997; Churchland, P. S., *Braintrust: What Neuroscience Tells Us about Morality*, Princeton University Press, 2011.
7. Paul Ekman, in conversation with the author.
8. Leopard vs. baboon, <http://www.youtube.com/watch?v=Nvp9cELWHhs>.
9. Hrdy, S. B., *Mothers and Others: The Evolutionary Origins of Mutual Understanding*, Belknap Press, 2009, pp. 67 and 109.
10. *Ibid.*, p. 66.
11. Marlowe, F., “Who tends Hadza children?” in Hewlett, B., & Lamb, M., *Hunter-Gatherer Childhoods*, 2005, pp. 177–190. Quoted in Hrdy, S. B. (2009). *Op. cit.*, p. 76.
12. Sagi, A., IJzendoorn, M. H., Aviezer, O., Donnell, F., Koren-Karie, N., Joels, T., & Harl, Y. (1995). Attachments in a multiple-caregiver and multiple-infant environment: The case of the Israeli kibbutzim. *Monographs of the Society for Research in Child Development*, 60 (2–3), 71–91. Quoted in Hrdy, S. B. (2009). *Op. cit.*, p. 131.

13. Personal communication from Jane Goodall, whom I thank for clarifying this.
14. Sear, R., Mace, R., & McGregor, I. A. (2000). Maternal grandmothers improve nutritional status and survival of children in rural Gambia. *Proceedings of the Royal Society of London. Series B: Biological Sciences*, 267(1453), 1641. Quoted in Hrdy, S. B. (2009). *Op. cit.*, pp. 107–108.
15. Pope, S. K., Whiteside, L., Brooks-Gunn, J., Kelleher, K. J., Rickert, V. I., Bradley, R. H., & Casey, P. H. (1993). Low-birth-weight infants born to adolescent mothers. *JAMA*, 269(11), 1396–1400. Quoted in Hrdy, S. B. (2009). *Op. cit.*, pp. 107–108.
16. Hrdy, S. B. (2009). *Op. cit.*, p. 144.
17. Watson, J., *Psychological Care of Infant and Child*, W. W. Norton, 1928, p. 82. Quoted in Hrdy, S. B. (2009). *Op. cit.*, p. 82.
18. Fernandez-Duque, E. (2007). Cost and benefit of parental care in free ranging owl monkey (*Aotus azarai*). Abstract. Article presented at the 76th annual meeting of the American Association of Physical Anthropologists, March 28–31, Philadelphia; Wolovich, C. K., Perea-Rodriguez, J. P., & Fernandez-Duque, E. (2008). Food transfers to young and mates in wild owl monkeys (*Aotus azarai*). *American Journal of Primatology*, 70(3), 211–221. Quoted in Hrdy, S. B. (2009). *Op. cit.*, pp. 88–89.
19. Boesch, C., Bole, C., Eckhardt, N., & Boesch, H. (2010). Altruism in forest chimpanzees: The case of adoption. *PloS one*, 5(1), e8901.
20. Busquet, G., *À l'écoute de l'Inde; des mangroves du Bangladesh aux oasis du Karakoram*, Transboréal, 2013, pp. 105ff.
21. Hrdy, S. B. (2009). *Op. cit.*, p. 128.
22. *Ibid.*, pp. 292–293.
23. See especially the exhaustive study on the effect of day care centers, NICHD Early Child Care Research Network, 1997, as well as McCartney, K., “Current research on child care effects,” in Tremblay, R. E., et al., *Encyclopedia on Early Childhood Development [online]*, Centre of Excellence for Early Childhood Development, 2004, 1–5. This study is ongoing, and one can follow its developments at www.nichd.nih.gov and www.excellence-earlychildhood.ca. Quoted in Hrdy, S. B. (2009). *Op. cit.*, p. 125.
24. The French philosopher and historian Élisabeth Badinter, for example, thinks that the concept of the maternal instinct is “old-fashioned” and that any discourse inspired by naturalism is a step backward. Badinter, É., *Le Conflit: La femme et la mère*, Le Livre de Poche, 2011.