

## *Forgiveness Involving Biology and Human Evolution*

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*“How Chimpanzees Process and Overcome Socially Negative Events”*

### **About the Investigator and His Research in Forgiveness**

**Dr. Frans B. M. de Waal** is C.H. Candler Professor in the Psychology Department of Emory University, in Atlanta, and Director of Living Links, which is part of the Yerkes National Primate Research Center. He is world-renowned for his studies of conflict resolution, cooperation, and cognition in primates, working with both monkeys and apes. Apart from a stream of scientific publications, he has written six popular books, among which *Peacemaking among Primates* (Harvard, 1989).

### **References**

- Aureli, F., & de Waal, F.B.M. (2000). *Natural conflict resolution*. Berkeley, CA: University of California Press.
- Aureli, F., & de Waal, F.B.M. (1997). Inhibition of social behavior in chimpanzees under high-density conditions. *American Journal of Primatology*, 41, 213-228.
- Aureli, F., Preston, S.D., de Waal, F.B.M. (1999). Heart rate responses to social interactions in free-moving rhesus macaques (*Macaca mulatta*): A pilot study. *Journal of Comparative Psychology*, 113, 59-65.
- Call, J., Aureli, F., & de Waal, F.B.M. (1999). Reconciliation patterns among stump-tail macaques: A multivariate approach. *Animal Behaviour*, 58, 165-172.
- de Waal, F.B.M. (1982). *Chimpanzee politics: Power and sex among apes*. London: Jonathon Cape.
- de Waal, F.B.M. (1989). The myth of a simple relation between space and aggression in captive primates. *Zoo Biology Supplement*, 1, 141-148.
- de Waal, F.B.M. (1993). Reconciliation among primates: A review of empirical evidence and unresolved issues. In W.A. Mason & S.P. Mendoza (Eds.), *Primate Social Conflict* (pp.111-144). Albany: State University New York Press.
- de Waal, F.B.M. (2000). Primates: A natural heritage of conflict resolution. *Science*, 289, 586-590.
- de Waal, F.B.M., Aureli, F. (1996). Consolation, reconciliation, and a possible cognitive difference between macaques and chimpanzees. In A.E. Russon, K.A. Bard, & S.T. Parker (Eds.), *Reaching into thought: The minds of the great apes* (pp/ 80-110). Cambridge: Cambridge University Press.
- de Waal, F.B.M., & Johanowicz, D.L. (1993). Modification of reconciliation behavior through social experience: An experiment with two macaque species. *Child Development*, 64, 897-908.
- de Waal, F.B.M., & van Roosmalen, A. (1979). Reconciliation and consolation among chimpanzees. *Behavioral Ecology and Sociobiology*, 5, 55-56.

- de Waal, F.B.M., & Yoshihara, D. (1983). Reconciliation and redirected affection in rhesus monkeys. *Behaviour*, *85*, 224-241.
- de Waal, F.B.M. & Pokorny, J.J. (2005). Primate conflict resolution and its relation to human forgiveness. In E.L. Worthington, Jr. (Ed.), *Handbook of Forgiveness*. (pp. 17-32). New York: Brunner-Routledge.
- Judge, P.G., & de Waal, F.B.M. (1993). Conflict avoidance among rhesus monkeys: Coping with short-term crowding. *Animal Behaviour*, *46*, 221-232.
- Judge, P.G., & de Waal, F.B.M. (1994). Intergroup grooming relations between alpha females in a population of free-ranging rhesus macaques. *Folia Primatologica*, *63*, 63-70.
- Judge, P.G., & de Waal, F.B.M. (1997). Rhesus monkey behaviour under diverse population densities: Coping with long-term crowding. *Animal Behaviour*, *54*, 643-662.