

Preface and Acknowledgments IX

Part 1

Introduction

1 Socio-Cognitive Abilities in Animals as the Object of Science—and What Has Been Neglected Thus Far 3

2 Questions and Objectives of the Book 8

Part 2

Socio-Cognitive Abilities in Animals

3 The Concept of Cognition and the Concept of Consciousness 15

4 Culture in Animals? 25

4.1 Animal Tool Use and Tool Production: a Widespread Phenomenon 25

4.2 Theoretical Considerations 40

4.3 Culture in Chimpanzees 53

4.4 Culture in Orangutans, Gorillas, and Dolphins 61

4.5 Culture in New Caledonian Crows 63

4.6 Can We Speak Meaningfully of “Culture” in Animals? 66

5 Language in Animals? 76

5.1 Language: the Ultimate *Differentia Specifica*? 76

5.2 Concept Possession as Prerequisite for Language 85

5.3 Functional and Intentional Aspects of Natural Animal Communication 104

5.4 Propositional Representations and Basic Grammar: First Notes from Language-Teaching Experiments 117

5.5 Can We Speak Meaningfully of “Language” in Animals? 128

6 Theory of Mind in Animals? 133

6.1 Theory of Mind as Everyday Psychology 133

6.2 Theory of Mind Research in Children 137

6.3 Theory of Mind in Animals: What Do Animals Know about Perceptual States and False Beliefs? 146

6.4 Can We Speak Meaningfully of “Theory of Mind” in Animals? 160

7 Summary and Transition 166

Part 3

The Relevance of Socio-Cognitive Abilities in Animals for Animal Ethics and Animal Welfare

8 Kinship and Responsibility: the Moral Status of Animals 175

8.1 Introduction to Basic Concepts in Animal Ethics 175

8.2 Basic Positions in Animal Ethics 181

8.3 “Classical” Arguments in Animal Ethics and Animal Welfare 198

8.4 A "New" Argument: Personhood Rights for Animals 205
8.5 Problems and Limits of Personhood Rights 245
8.6 Opportunities for Personhood Rights: "Cognitive Relatives" as
Ambassadors of Species Protection? 250

9 Kinship and Responsibility: the Discrepancy between Ethical
Demands and the Status Quo 253

9.1 Case Study: How We Treat Great Apes 253
9.2 Case Study: How We Treat Dolphins 283

10 Summary 323

Part 4

Discussion

11 Cognitive Kinship and the Concept of an Evolutionary Self 329

11.1 Animals as Strangers and Kin at the Same Time 329
11.2 On the Way to a Nature Deficit of a Special Kind 332