

Cambridge University Press

0521580277 - The Mentalities of Gorillas and Orangutans: Comparative Perspectives

Edited by Sue Taylor Parker, Robert W. Mitchell and H. Lyn Miles

Table of Contents

[More information](#)

Contents

List of contributors [vii]

Preface [ix]

Acknowledgments [xi]

I Comparative evolutionary and developmental perspectives on gorillas and orangutans

- 1 Hominid family values: morphological and molecular data on relations among the great apes and humans [3]

DAVID R. BEGUN

- 2 The life history and development of great apes in comparative perspective [43]

SUE T. PARKER

- 3 The frontal lobes of the great apes with a focus on the gorilla and the orangutan [70]

KATERINA SEMENDEFERI

II Cognition and tool use in gorillas and orangutans

- 4 Intelligent tool use in wild Sumatran orangutans [99]

ELIZABETH A. FOX, ARNOLD F. SITOMPUL, AND CAREL P. VAN SCHAIK

- 5 Orangutans' imitation of tool use: a cognitive interpretation [117]

ANNE E. RUSSON

- 6 Object manipulation and skill organization in the complex food preparation of mountain gorillas [147]

RICHARD W. BYRNE

- 7 Development of sensorimotor intelligence in infant gorillas: the manipulation of objects in problem-solving and exploration [160]

JUAN C. GÓMEZ

- 8 Tool use in captive gorillas [179]

SARAH T. BOYSEN, VALERIE A. KUHLMEIER, PETER HALLIDAY,
AND YOLANDA M. HALLIDAY

Cambridge University Press

0521580277 - The Mentalities of Gorillas and Orangutans: Comparative Perspectives

Edited by Sue Taylor Parker, Robert W. Mitchell and H. Lyn Miles

Table of Contents

[More information](#)

vi

Contents

- 9 A survey of tool use in zoo gorillas [188]
SUE T. PARKER, MARY KERR, HAL MARKOWITZ, AND JAY GOULD

III Communication in gorillas and orangutans

- 10 Symbolic communication with and by great apes [197]
H. LYN MILES
- 11 The development of spontaneous gestural communication in a group of zoo-living lowland gorillas [211]
JOANNE E. TANNER AND RICHARD W. BYRNE
- 12 Early sign-language acquisition: comparisons between children and gorillas [240]
JOHN B. BONVILLIAN AND FRANCINE G. P. PATTERSON
- 13 Early sign performance in a free-ranging, adult orangutan [265]
GARY L. SHAPIRO AND BIRUTÉ M. F. GALDIKAS

IV Social cognition in gorillas and orangutans

- 14 Comparative aspects of mirror self-recognition in great apes [283]
KARYL B. SWARTZ, DENA SARAUW, AND SIÂN EVANS
- 15 Deception and concealment as strategic script violation in great apes and humans [295]
ROBERT W. MITCHELL
- 16 Levels of imitation and cognitive mechanisms in orangutans [316]
JOSEPH CALL
- 17 Parental encouragement in *Gorilla* in comparative perspective: implications for social cognition and the evolution of teaching [342]
ANDREW WHITEN
- 18 The development of social roles in the play of an infant gorilla and its relationship to sensorimotor intellectual development [367]
SUE T. PARKER

V Epilogue

- 19 The mentalities of gorillas and orangutans in phylogenetic perspective [397]
SUE T. PARKER AND ROBERT W. MITCHELL

Index of authors [412]

Index of subjects [416]