Contents

| | | | rlotte Störmer, and Kai P. Willführ | 1 | | | | |
|---|--|--|---|----|--|--|--|--|
| 1 | Our Origins: How and Why We Do and Do Not Differ from Primates | | | | | | | |
| _ | Peter Kappeler | | | | | | | |
| | 1.1 | | action | 6 | | | | |
| | 1.2 | | lumans Do Not Differ from Primates | 7 | | | | |
| | 1.3 | | lumans Do Not Differ from Primates | 10 | | | | |
| | 1.4 | | lumans Do Differ from Primates | 11 | | | | |
| | 1.5 | | Iumans Do Differ from Primates | 12 | | | | |
| 2 | Our | Childrer | n: Parental Decisions — How Much to Invest | | | | | |
| | in Your Offspring | | | | | | | |
| | | K. Shen | | | | | | |
| | 2.1 | Introduction to Parental Investment Theory | | 17 | | | | |
| | | | istory Theory and Tradeoffs | 19 | | | | |
| | | 2.2.1 | Current vs. Future Reproduction | 19 | | | | |
| | | 2.2.2 | Quantity vs. Quality | | | | | |
| | 2.3 | Who Ir | envests: Mothers, Fathers, Grandmothers, and Others | 23 | | | | |
| | | 2.3.1 | Mothers and Fathers | 23 | | | | |
| | | 2.3.2 | Grandmothers and Others | 25 | | | | |
| | | 2.3.3 | Are Humans Cooperative Breeders? | 26 | | | | |
| | 2.4 Parent-Offspring and Sibling Conflicts | | -Offspring and Sibling Conflicts | 27 | | | | |
| | | 2.4.1 | Infanticide and Neglect | 27 | | | | |
| | | 2,4,2 | Differential Investment and Inheritance | 29 | | | | |
| | 2.5 | | | 30 | | | | |
| | | 2.5.1 | The Trivers-Willard Effect | | | | | |
| | | 2.5.2 | Local Resource Competition and Enhancement | 31 | | | | |
| | | 2.5.3 | Marriage Payments as Sex-Biased Parental Investment | | | | | |
| | 2.6 | Conclu | isions | | | | | |

x Contents

| 3 | Our Social Roots: How Local Ecology Shapes Our Social Structures. 3 | | | | | | |
|---|---|--|--|----|--|--|--|
| | Ruth | Mace | | | | | |
| | 3.1 | Adaptation and Maladaptation | | | | | |
| | 3.2 | Testing | Hypotheses About Adaptation in Human Cultural | | | | |
| | | Behavio | or Through Cross-Cultural Comparison | 42 | | | |
| | | 3.2.1 | Ecological Correlates of Human Social Behavior | 42 | | | |
| | | 3.2.2 | How Social Behavior is Adapted to Subsistence Strategies | 44 | | | |
| | | 3.2.3 | Cultural Phylogenetics | 45 | | | |
| | | 3.2.4 | Transmission of Traits from Mother to Daughter Cultures | 50 | | | |
| | 3.3 | Conclu | sions | 52 | | | |
| 4 | Our Selections and Decisions: Inherent Features of the Nervous | | | | | | |
| | Syste | em? | | 55 | | | |
| | Franl | k Rösler | | | | | |
| | 4.1 | | ction | 55 | | | |
| | 4.2 | Some T | Thoughts About Selection–Decision Architectures | 58 | | | |
| | 4.3 | Switchi | ing/Decision/Negotiation Modules | | | | |
| | | 4.3.1 | Features of Conflict Negotiation Modules | 62 | | | |
| | | 4.3.2 | Evidence for Conflict-Negotiating Modules | 63 | | | |
| | 4.4 | Represe | entation of Decision-Related Intervening Variables | 65 | | | |
| | | 4.4.1 | BOLD Responses in Humans | 66 | | | |
| | | 4.4.2 | Single Cell Responses in Animals | 68 | | | |
| | 4.5 | | | 70 | | | |
| | | 4.5.1 | Distributed Networks and Complex Interactions | 70 | | | |
| | | 4.5.2 | Nomothetic vs. Idiographic Descriptions | 71 | | | |
| 5 | | | ariation in Supernatural Minds | 77 | | | |
| | | | Purzycki and Richard Sosis | | | | |
| | 5.1 | | ction | 77 | | | |
| | 5.2 | Represe | enting Supernatural Minds | 78 | | | |
| | | 5.2.1 | The Mindreading System and Attributed Domains | 78 | | | |
| | | 5.2.2 | Supernatural Minds, Variation, and Counterintuitiveness. | 80 | | | |
| | 5.3 | 5.3 Variation in Domains of Supernatural Agents' Knowledge | | | | | |
| | | and Co | and Concern 84 | | | | |
| | | 5.3.1 | Omniscience with Heightened Concern: | | | | |
| | | | Prosocial Behavior | 84 | | | |
| | | 5.3.2 | Imperfect Access with Acute Concern: Ritual Behavior | 85 | | | |
| | | 5.3.3 | Emphases on Faith, Practice, and Social Complexity | 87 | | | |
| | 5.4 | Conclu | sion | 89 | | | |
| 6 | | | ces: Why We Like What We Like | 95 | | | |
| | Karl | Grammer | and Elisabeth Oberzaucher | | | | |
| | 6.1 | Darwin | 's Problem | 96 | | | |
| | 6.2 | onary Constraints on Aesthetic Perception: | | | | | |
| | | | dy as an Evolved Form | 98 | | | |
| | 6.3 | | ght Pillars of Beauty | | | | |

Contents xi

| | 6.4 | Alterna | ative Views: Neuroaesthetics | . 103 | | | | |
|---|-------|--|--|-------|--|--|--|--|
| | 6.5 | | ative Views: The Evolutionary Psychology of Ugliness | | | | | |
| | 6.6 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| 7 | Our | Appetite | e for Information: Invented Environment, | | | | | |
| | Non- | on-Transparent Mind, and Evolved Preferences | | | | | | |
| | | hias Uhl | | | | | | |
| | 7.1 | Introdu | action | . 109 | | | | |
| | 7.2 | | ognition, New Playgrounds, and the Technological Fallacy | | | | | |
| | 7.3 | We Don't Know that We Don't Know How We Perceive Media 112 | | | | | | |
| | 7.4 | Still the Same Old Cues | | | | | | |
| | 7.5 | Reality and Media: The Boundary that Never Was | | | | | | |
| | 7.6 | | d Stories Are the Best | | | | | |
| | 7.7 | Conclu | sion | . 120 | | | | |
| 8 | Our | Best Sho | ot at Truth: Why Humans Evolved Mathematical | | | | | |
| | | | | 123 | | | | |
| | Nikla | as Krebs | | | | | | |
| | 8.1 | Introdu | action | . 123 | | | | |
| | 8.2 | | athematical Abilities of Modern Humans | | | | | |
| | | 8.2.1 | Number Sense | | | | | |
| | | 8.2.2 | Number Processing | | | | | |
| | | 8.2.3 | Mathematical Thinking in Terms of Relations | . 127 | | | | |
| | 8.3 | | | | | | | |
| | | of Modern Humans | | | | | | |
| | | 8.3.1 | Evolutionary Origins of Number Sense | | | | | |
| | | 8.3.2 | Evolutionary Origins of Number Processing | . 130 | | | | |
| | | 8.3.3 | Evolutionary Origins of Mathematical Thinking | | | | | |
| | | | in Terms of Relations | . 133 | | | | |
| | 8.4 | Discus | sion: The Mathematical Nature of Modern Humans | | | | | |
| 9 | Our | Way to | Understand the World: Darwin's Controversial | | | | | |
| | Inhe | ritance . | | 143 | | | | |
| | Mich | chael Schmidt-Salomon | | | | | | |
| | 9.1 | Knowing Instead of Believing: Why the Theory of Evolution | | | | | | |
| | | and Tra | aditional Forms of Belief Are Irreconcilable | . 143 | | | | |
| | 9.2 | and Misunderstandings: The Theory of Evolution | | | | | | |
| | | e Ghost of Biologism | . 149 | | | | | |
| | 9.3 | Huxley | y's Synthesis: How Evolutionary Humanism | | | | | |
| | | | into Darwin's Inheritance | . 152 | | | | |
| | | | | | | | | |
| T | low | | | 157 | | | | |