

Contents

List of figures [page ix]

Acknowledgments [xi]

Introduction [1]

SECTION 1 THE LAY OF THE LAND

1 Language from a biological perspective [13]

2 Evolution: consensus and controversy [35]

3 Language [73]

4 Animal cognition and communication [143]

SECTION 2 MEET THE ANCESTORS

5 Meet the ancestors [205]

6 The LCA: our last common ancestor with chimpanzees [234]

7 Hominid paleontology and archaeology [250]

SECTION 3 THE EVOLUTION OF SPEECH

8 The evolution of the human vocal tract [297]

9 The evolution of vocal control: the neural basis for spoken language [338]

10 Models of the evolution of speech and phonology [364]

SECTION 4 EVALUATING PHYLOGENETIC MODELS OF LANGUAGE EVOLUTION

11 Historical overview: Western theories of language origin before Darwin [389]

- 12 Lexical protolanguage [401]
- 13 Signs before speech: gestural protolanguage theories [433]
- 14 Musical protolanguage [466]
- 15 Conclusions and prospects [508]

- Glossary* [513]
- Appendix: species names* [519]
- References* [521]
- Author index* [605]
- Subject index* [607]
- Species index* [611]