

Contents

<i>List of contributors</i>	<i>page</i> vii
<i>Preface</i>	ix
<i>Introduction L. J. Rogers and R. J. Andrew</i>	1
Part one: Evolution of lateralization	7
1 How ancient is brain lateralization? <i>G. Vallortigara and A. Bisazza</i>	9
2 The earliest origins and subsequent evolution of lateralization <i>R. J. Andrew</i>	70
3 The nature of lateralization in tetrapods <i>R. J. Andrew and L. J. Rogers</i>	94
4 Advantages and disadvantages of lateralization <i>L. J. Rogers</i>	126
Part two: Development of lateralization	155
5 Behavioural development and lateralization <i>R. J. Andrew</i>	157
6 Factors affecting the development of lateralization in chicks <i>C. Deng and L. J. Rogers</i>	206
7 Ontogeny of visual asymmetry in pigeons <i>O. Güntürkün</i>	247
8 Development of laterality and the role of the corpus callosum in rodents and humans <i>P. E. Cowell and V. H. Denenberg</i>	274
9 Posture and laterality in human and non-human primates: Asymmetries in maternal handling and the infant's early motor asymmetries <i>E. Damerose and J. Vauclair</i>	306
Part three: Cognition and lateralization	363
10 Evidence for cerebral lateralization from senses other than vision <i>R. J. Andrew and J. A. S. Watkins</i>	365
11 Facing an obstacle: Lateralization of object and spatial cognition <i>G. Vallortigara and L. Regolin</i>	383
12 Laterality of communicative behaviours in non-human primates: A critical analysis <i>W. D. Hopkins and S. Fernández Carriba</i>	445

vi	<i>Contents</i>	
13	Specialized processing of primate facial and vocal expressions: Evidence for cerebral asymmetries <i>D. J. Weiss, A. A. Ghazanfar,</i> <i>C. T. Miller and M. D. Hauser</i>	480
	Part four: Lateralization and memory	531
14	Memory and lateralized recall <i>A. N. B. Johnston and</i> <i>S. P. R. Rose</i>	533
15	Memory formation and brain lateralization <i>R. J. Andrew</i>	582
	<i>Epilogue R. J. Andrew and L. J. Rogers</i>	634
	<i>Appendix</i>	000
	<i>Author index</i>	000
	<i>Subject index</i>	000