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Nota di contenuto	How ancient is brain lateralization? / G. Vallortigara and A. Bisazza -- The earliest origins and subsequent evolution of lateralization / R.J. Andrew -- The nature of lateralization in tetrapods / R.J. Andrew and L. J. Rogers -- Advantages and disadvantages of lateralization / L.J. Rogers -- Behavioural development and lateralization / R.J. Andrew -- Factors affecting the development of lateralization in chicks / C. Deng and L.J. Rogers -- Ontogeny of visual asymmetry in pigeons / O. Gunturkun -- Development of laterality and the role of the corpus callosum in rodents and humans / P.E. Cowell and V.H. Denenberg -- Posture and laterality in human and non-human primates : asymmetries in maternal handling and the infant's early motor asymmetries / E. Damerose and J. Vauclair -- Evidence for cerebral

lateralization from senses other than vision / R.J. Andrew and J.A.S. Watkins -- Facing an obstacle : lateralization of object and spatial cognition / G. Vallortigara and L. Regolin -- Laterality of communicative behaviours in non-human primates : a critical analysis / W.D. Hopkins and S. Fernandez Carriba -- Specialized processing of primate facial and vocal expressions : evidence for cerebral asymmetries / D.J. Weiss [and others] -- Memory and lateralized recall / A.N.B. Johnston and S.P.R. Rose -- Memory formation and brain lateralization / R.J. Andrew.

Sommario/riassunto

No longer viewed as a characteristic unique to humans, brain lateralization is considered a key property of most, if not all, vertebrates. This field of study provides a firm basis from which to examine a number of important issues in the study of brain and behaviour. This book takes a comparative and integrative approach to lateralization in a wide range of vertebrate species, including humans. It highlights model systems that have proved invaluable in elucidating the function, causes, development, and evolution of lateralization. The book is arranged in four parts, beginning with the evolution of lateralization, moving to its development, to its cognitive dimensions, and finally to its role in memory. Experts in lateralization in lower vertebrates, birds, non-primate mammals, and primates have contributed chapters in which they discuss their own research and consider its implications to humans. The book is suitable for researchers, graduates and advanced undergraduates in psychology, neuroscience and the behavioral sciences.