



Evolutionary Neuroscience

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Evolutionary Neuroscience is a collection of articles in brain evolution selected from the recent comprehensive reference, Evolution of Nervous Systems (Elsevier, Academic Press, 2007). The selected chapters cover a broad range of topics from historical theory to the most recent deductions from comparative studies of brains. The articles are organized in sections focused on theories and brain scaling, the evolution of brains from early vertebrates to present-day fishes, amphibians, reptiles and birds, the evolution of mammalian brains, and the evolution of primate brains, including human brains. Each chapter is written by a leader or leaders in the field, and has been reviewed by other experts. Specific topics include brain character reconstruction, principles of brain scaling, basic features of vertebrate brains, the evolution of the major sensory systems, and other parts of brains, what we can learn from fossils, the origin of neocortex, and the evolution of specializations of human brains. The collection of articles will be interesting to anyone who is curious about how brains evolved from the simpler nervous systems of the first vertebrates into the many different complex forms now found in present-day vertebrates. This book would be of use to students at the graduate or undergraduate levels, as well as professional neuroscientists, cognitive scientists, and psychologists. Together, the chapters provide a comprehensive list of further reading and references for those who want to inquire further.

- The most comprehensive, authoritative and up-to-date single volume collection on brain evolution
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