

# EVOLUTION OF NERVOUS SYSTEMS



A COMPREHENSIVE REFERENCE

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VOLUME EDITORS:

GEORG F STRIEDTER & JOHN L R RUBENSTEIN

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VOLUME I

THEORIES, DEVELOPMENT, INVERTEBRATES

# Evolution Of Nervous Systems Four Volume Set

**Irving B. Weiner, W. Edward Craighead**

## **Evolution Of Nervous Systems Four Volume Set:**

**Evolution of Nervous Systems** Georg F. Striedter, Theodore H. Bullock, Todd M. Preuss, John Rubenstein, Leah A. Krubitzer, 2016-11-23 Evolution of Nervous Systems Second Edition Four Volume Set is a unique major reference which offers the gold standard for those interested both in evolution and nervous systems All biology only makes sense when seen in the light of evolution and this is especially true for the nervous system All animals have nervous systems that mediate their behaviors many of them species specific yet these nervous systems all evolved from the simple nervous system of a common ancestor To understand these nervous systems we need to know how they vary and how this variation emerged in evolution In the first edition of this important reference work over 100 distinguished neuroscientists assembled the current state of the art knowledge on how nervous systems have evolved throughout the animal kingdom This second edition remains rich in detail and broad in scope outlining the changes in brain and nervous system organization that occurred from the first invertebrates and vertebrates to present day fishes reptiles birds mammals and especially primates including humans The book also includes wholly new content fully updating the chapters in the previous edition and offering brand new content on current developments in the field Each of the volumes has been carefully restructured to offer expanded coverage of non mammalian taxa mammals primates and the human nervous system The basic principles of brain evolution are discussed as are mechanisms of change The reader can select from chapters on highly specific topics or those that provide an overview of current thinking and approaches making this an indispensable work for students and researchers alike Presents a broad range of topics ranging from genetic control of development in invertebrates to human cognition offering a one stop resource for the evolution of nervous systems throughout the animal kingdom Incorporates the expertise of over 100 outstanding investigators who provide their conclusions in the context of the latest experimental results Presents areas of disagreement and consensus views that provide a holistic view of the subjects under discussion **Library Journal** Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 2007 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately *Library Journal*, 2006 **The Corsini Encyclopedia of Psychology, Volume 3** Irving B. Weiner, W. Edward Craighead, 2010-01-19 Psychologists researchers teachers and students need complete and comprehensive information in the fields of psychology and behavioral science The Corsini Encyclopedia of Psychology Volume Three has been the reference of choice for almost three decades This indispensable resource is updated and expanded to include much new material It uniquely and effectively blends psychology and behavioral science The Fourth Edition features over 1 200 entries complete coverage of DSM disorders and a bibliography of over 10 000 citations Readers will benefit from up to date and authoritative coverage of every major area of psychology **The Corsini Encyclopedia of Psychology, Volume 1** Irving B. Weiner, W. Edward Craighead, 2010-01-19 Psychologists researchers teachers and students

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*Handbook of Physiology* William H. Dantzler,1996-11 This handbook provides the only complete survey of comparative physiology for both vertebrates and invertebrates at an advanced level appropriate for research scientists graduate students postdoctoral fellows and faculty It starts with a chapter on the adaptation and evolution of physiological characters followed by up to date chapters covering each organ system in detail The editors then discuss the comparative physiological strategies organisms have developed for dealing with environmental challenges such as extreme temperatures extreme dryness seasonal and diurnal cycles and variations in salinity and osmolality of aqueous environments **Publisher and Bookseller** ,1898 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series **Animal Models in Biomedical Research** ,1993-07 **British Books** ,1912 **The New Unity** ,1896 **The Publisher** ,1910 **Special Reference Briefs** ,1983 Primary Education ,1903 **The Publishers' Circular and Booksellers' Record** ,1928 **The Principles of Psychology** William James ,1918 **Popular Educator** ,1903

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