

Long-term potentiation from biophysics to behavior (Neurology and neurobiology)

Philip W. Landfield

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Long Term Potentiation From Biophysics To Behavior Neurology And Neurobiology Volume 35

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Long-term Potentiation M. Baudry, Joel L. Davis, 1991 Following the successful format of the first volume on long term potentiation a leading candidate for the neuronal basis of learning and memory Volume 2 brings together the most recent data and hypotheses by top neuroscientists regarding the mechanisms of this phenomenon and of long term depression LTD The book is divided into several sections covering different aspects of the field ranging from molecular mechanisms of plasticity to computational neurobiology It revisits some of the major points covered in Volume 1 updating them in this fast moving field It also introduces several new issues that have arisen since then Of the many possible new topics that could have been added the editors have focused on retrograde messengers and the mechanisms and functions of LTP and LTD because they are the subject of much interest research and controversy The section on retrograde messengers deals primarily with nitric oxide **The Journal of Neuroscience** ,1988 **Long-term Potentiation from Biophysics to Behavior** Sam A. Deadwyler, 1988 **Excitatory Amino Acid Receptors** Povl Krogsgaard-Larsen, Jan Jan Hansen, 1992 Designed to reflect the growing awareness of the chemical aspects of excitatory amino acids this text uses computer based methods and X ray techniques to depict and analyze molecules and structure activity relationships The book incorporates stereochemical principles into all analyses **Neuroscience and Connectionist Theory** Mark A. Gluck, David E. Rumelhart, 2013-02-01 Written for cognitive scientists psychologists computer scientists engineers and neuroscientists this book provides an accessible overview of how computational network models are being used to model neurobiological phenomena Each chapter presents a representative example of how biological data and network models interact with the authors research The biological phenomena cover network or circuit level phenomena in humans and other higher order vertebrates *Motor Learning and Synaptic Plasticity in the Cerebellum* Paul J. Cordo, Curtis Calvin Bell, Stevan R. Harnad, 1997-11-28 This book is concerned with the involvement of the cerebellum in learning and remembering motor tasks It is unique in discussing plasticity at both the cellular and at the behavioral level **Learning and Memory** John R. Anderson, 1995 From one of the leading researchers in the field of human memory comes the new edition of a truly integrative perspective on learning and memory Rather than forge a simple synthesis Anderson integrates learning research on animals and memory research on humans without distorting the character of either one The result is a more complete picture of learning including material on skill acquisition inductive learning and applications to education **Psychology of Learning and Motivation** ,1989-11-22 Psychology of Learning and Motivation **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1988 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **The Corsini Encyclopedia of Psychology and Behavioral Science, Volume 3** W. Edward Craighead, Charles B. Nemeroff, 2002-11-11 A comprehensive reference for psychology research and practice The Corsini Encyclopedia of Psychology and Behavioral Science Volume 3 provides researchers practicing psychologists teachers

and students with an exhaustive reference for the field Covering psychological and behavioral conditions treatments testing diagnoses and much more this invaluable resource provides information on over 1 200 topics across four volumes This Third Edition features new coverage of biomedical research and neuroscience findings to reflect the growing impact of evidence based treatment and includes profiles of influential psychologists and psychological organizations from around the world

Books in Series, 1876-1949 R.R. Bowker Company,1982 **Dendritic Spines: from Biophysics to Neuropathology** Menahem Segal,Martine Ammassari-Teule,Carlo Sala,2021-03-26 *Computer Sciences Technical Report*,1988 **Generalized Epilepsy** AVOLI,2012-12-06 In recent years there has been intense interest in the basic mechanisms of epilepsy Many symposia and monographs have been devoted to this topic These reviews however have focused almost exclusively on studies performed in models of partial or focal epilepsy It was natural that scientists interested in the fundamental mechanism of epileptogenesis at the cellular level were attracted to work on models in which the epileptogenic dysfunction could be confined to ever smaller populations of neurons Many of the most illuminating studies done in this field in the recent past have been carried out in vitro on brain slices or on dissociated neuronal cultures Much valuable insight into the mechanisms of epileptogenesis has been obtained in this manner One cannot however automatically assume that mechanisms elucidated in such exquisitely focal models are applicable to forms of epilepsy in which seizures from their very start involve the entire brain One of the most difficult questions that arises in this context is how epileptogenic dysfunction which can be understood in terms of mechanisms involving a few contiguous cells can lead to what appears to be a simultaneous onset of seizure discharge in virtually all areas of the brain Most of the workers who have made excellent contributions to the understanding of the cellular mechanisms involved in epileptogenesis have paid virtually no attention to this important problem Excitatory Amino Acids and Synaptic Transmission H. V. Wheal,Alex M. Thomson,1991 The excitatory amino acids EAAs as neurotransmitters are of vast and rapidly expanding interest This volume relates current knowledge of the EAAs back to the synapse where many of their physiologically relevant actions must occur Excitatory Amino Acids and Synaptic Transmission is the first book to do so A multinational team of experts have contributed not only novel but in some cases controversial material reflecting the competition between research groups on both sides of the Atlantic Key Features Features a complete glossary Includes one common reference list Useful as a teaching tool for undergraduates and postgraduates Can be used as a reference text for experts Presents a marriage of up to date molecular biology and biophysics with a traditional approach to the function of synapses in the central nervous system **Exploring Brain Functions** T. A. Poggio,D. A. Glaser,1993-04-27 Exploring Brain Functions Models in Neuroscience Edited by T A Poggio and D A Glaser This volume consists of the background papers and reports of discussion from the Dahlem Workshop It focuses on the identification of appropriate models for brain functions and ways of evaluating them A unique combination of key researchers involved in theoretical and experimental neurobiology addressed these issues from the following perspectives Molecular and

biophysical mechanisms of information processing Forms and mechanisms of learning Models of visual perception case studies in brain functions and Architectures of intelligent systems This book provides a timely assessment of the state of theories involving the brain and their role in neuroscience today and tomorrow from the point of view of theoreticians and experimentalists alike *The Cumulative Book Index*, 1989 A world list of books in the English language Books in Series, 1985 Vols for 1980 issued in three parts Series Authors and Titles *Control of Breathing and Its Modeling Perspective* Y. Honda, K. Konno, Y. Miyamoto, J.G. Widdicombe, 2013-06-29 The fifth Oxford Conference was held on September 17th 19th 1991 at the Fuji Institute of Training in Japan the first time that the meeting has taken place in the Asian area The facts that only a relatively few Japanese had attended previous Oxford Conferences and that Japan is far from other regions with possible participants made the organizers anticipate a small attendance at the meeting However contrary to our expectations 198 active members 72 foreign and 126 domestic participants submitted 146 papers from 15 countries This was far beyond our preliminary estimate and could have caused problems in providing accommodation for the participants and in programming their scientific presentations These difficulties however were successfully overcome by using nearby hotels by telecasting presentations into a second lecture room and by displaying a substantial number of poster presentations during the whole period of the meeting The meeting had two types of sessions regular and current topics The first paper in each session represented a short overview or introduction so as to make it easier for the audience to comprehend the problems at issue Because of the large number of papers submitted carefully selected speakers mostly well known scholars made excellent presentations that were followed by lively discussions In this way the conference laid a foundation on which to base its continued scientific success

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