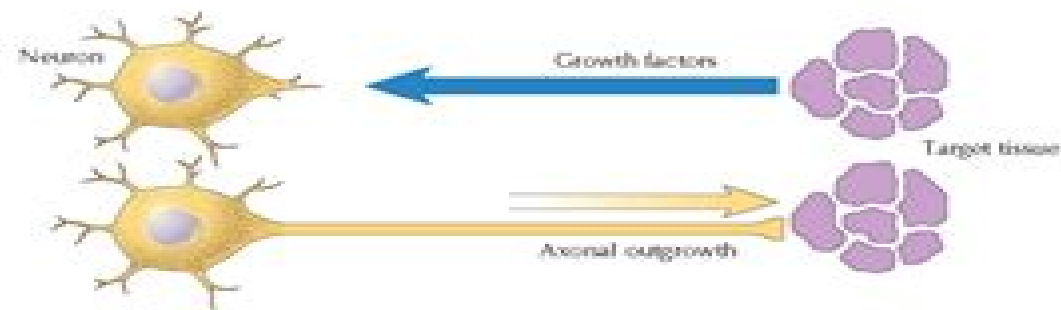


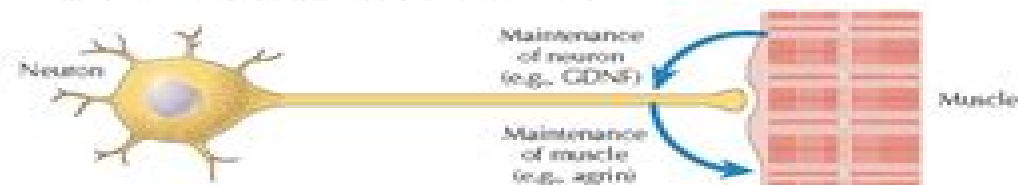
I. Growth (e.g., neuronal differentiation, axonal outgrowth)



II. Autocrine and paracrine signaling between and among neurons



III. Reciprocal signaling (e.g., neuromuscular junction)



Growth Factor	Source	Receptor	Critical for:
NGF	Skin, hippocampus	TrkA, p75	Cutaneous nociceptive neurons (small DRG neurons) Sympathetic neurons Basal Forebrain Cholinergic neurons (not the only factor required)
BDNF	Many sites	TrkB, p75	Synaptic plasticity In periphery, BDNF KO mice show loss of vestibular ganglion neurons
NT3	Golgi tendon organs and muscle spindles	TrkC, p75	Loss of proprioceptive sensory neurons in DRG No gamma motoneurons; mice die at birth
NT4	Multiple sites	TrkB, p75	No robust phenotype
GDNF	Muscle	Grb1, Ret	Partial loss of muscles
CNTF	Muscle	CNTRF α , gp130	KO of CNTRF α : partial loss of muscles, but CNTF KO no loss due to LIF working
IGF-1	Muscle	IGFR-1, IGFR-2	Partial loss of muscles
VEGF	Muscle	Flk-1, Flt-1, Flt-4	Embryonic lethal (required for angiogenesis)

NGF, nerve growth factor; BDNF, brain derived neurotrophic factor; NT3 and NT4, neurotrophic 3 and 4; GDNF, glial cell-line derived neurotrophic factor; CNTF, ciliary neurotrophic factor; IGF-1, insulin-like growth factor 1; VEGF, vascular endothelial growth factor; Trk, tyrosine kinase; KO, knock out; LIF, leukemia inhibitory factor

Neuronal Growth Factors Current Topics In Microbiology 165 And Immunology

**Francis V. Chisari, Michael B.A.
Oldstone**



Neuronal Growth Factors Current Topics In Microbiology 165 And Immunology:

Neuronal Growth Factors Mark Bothwell, 2013-06-29 A host of environmental factors regulate the embryonic development of neurons In adults the survival of neurons the regeneration of damaged axons and plastic changes in axonal arborization are also controlled by a complex array of environmental cues An important category of regulatory influences involves target derived hormone like peptides act ing on neuronal cell surface receptors Nerve growth factor NGF was the first such factor to be characterized LEVI MONTALCINI and HAMBURGER 1953 and has served as the model against which all similar factors are compared A number of factors with properties similar to NGF have been described with activities toward differing populations of neurons Many of these factors have been characterized only poorly at the biochemical level However several factors have been characterized to the extent that molecular clones are available and complete amino acid sequences are known These include three structurally related factors NGF itself SCOTT et al 1983 brain derived neurotrophic factor BDNF LEIBROCK et al 1989 and neurotrophin 3 NT 3 MAISONPIERRE et al 1990 HOHN et al 1990 ciliary neurotrophic factor CNTF LIN et al 1989 and a second set of structural homologs acidic and basic fibroblast growth factors aFGF bFGF ABRAHAM et al 1986 JAYE et al 1986 Investigators have cloned the receptors for NGF JOHNSON et al 1986 RADEKE et al 1987 and FGF LEE et al 1989

Neurobehavioral Plasticity Norman E. Spear, Linda P. Spear, Michael L. Woodruff, 2013-06-17 This book describes a unique combination of research programs based on a striking variety of hypotheses and procedures directed toward understanding the sources and consequences of neurobehavioral plasticity This remarkable attribute of the nervous system to be pliable and capable of being shaped or formed by natural or artificial sources toward adaptation or maladaptation is considered in terms of the neurochemical forces and neuroanatomical structure that has been found to be pivotal for this function The impetus for this volume was a symposium held to honor Robert L Isaacson for his scientific and pedagogical achievements as well as his contributions to behavioral neuroscience Corresponding to his three major research interests the book is divided into three sections as follows the first explores the relationship between the limbic system and behavior with an emphasis on learning and memory the second considers through a wide range of approaches issues of plasticity in behavior and brain and the third deals with neural and chemical determinants of normal and abnormal behavior This volume is not only a fitting tribute to Isaacson but also an unusual collection of new evidence procedures and theories destined to have significant influence on behavioral neuroscience

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1987 *Nitric Oxide*, 2014-08-12 First published in 1943 Vitamins and Hormones is the longest running serial published by Academic Press The Series provides up to date information on vitamin and hormone research spanning data from molecular biology to the clinic A volume can focus on a single molecule or on a disease that is related to vitamins or hormones A hormone is interpreted broadly so that related substances such as transmitters cytokines growth factors and others can be reviewed This volume

focuses on nitric oxide Expertise of the contributors Coverage of a vast array of subjects In depth current information at the molecular to the clinical levels Three dimensional structures in color Elaborate signaling pathways **Prions**

Prions Stanley B. Prusiner, 2012-12-06 A series of remarkable discoveries in the past three decades have led to the molecular and genetic characterization of the transmissible pathogen causing scrapie in animals and a quartet of human illnesses kuru Jakob Creutzfeldt disease Gerstmann Strussler Scheinker disease and fatal familial insomnia To distinguish this pathogen from viruses and viroids the term prion was introduced to emphasize its proteinaceous and infectious nature Stanley B Prusiner editor of this volume was awarded the 1997 Nobel Prize in Physiology and Medicine for his pioneering discovery of prions The book reviews advances in studies of prions which as considerable evidence indicates are novel pathogens composed only of protein *The Journal of Neuroscience*, 1995

Mechanisms of Injury-induced Neuronal Plasticity in the Adult Mammalian CNS: Investigation of Cellular Interactions and Trophic Factor Expression in the Denervated Rat Hippocampus Anne M. Fagan, 1992

The Molecular Repertoire of Adenoviruses I Walter Doerfler, Petra Böhm, 2012-12-06 For decades this virus system has served and continues to do so to pioneer investigations on the molecular biology biochemistry and genetics of mammalian cell systems This three volume work presents an up to date account of recent basic research in one of the most important experimental systems for biochemical cell biological genetic virological and epidemiological investigations in mammalian molecular biology In this the first of the three volumes an overview of adenovirus research is presented with emphasis on the structure and assembly of adenoviruses viral infections and viral gene products The chapters have been written by an international group of leading experts in their respective fields of interest *Transgenic Models of Human Viral and Immunological Disease* Francis V. Chisari, Michael B.A.

Oldstone, 2012-12-06 Most diseases are multifactorial Transgenic technology permits genes of interest to be expressed in a small manipulatable laboratory animal model By this process murine models of human infections can be developed and studied effects of cytokines in vivo focally expressed in unique cells can be established and manipulated and a variety of autoimmune disorders mimicking human disease can be constructed In this volume these approaches for study of human immunodeficiency virus hepatitis virus viruses causing tumors and chronic degenerative disorders are described Also included are chapters of transgenic models of autoimmune disorders like diabetes systemic lupus and ankylosing spondylitis

The Molecular Repertoire of Adenoviruses III Walter Doerfler, Petra Böhm, 2012-12-06 For decades this virus system has served and continues to do so to pioneer investigations on the molecular biology biochemistry and genetics of mammalian cell systems This three volume work presents an up to date account of recent basic research in one of the most important experimental systems for biochemical cell biological genetic virological and epidemiological investigation in mammalian molecular biology In the first of the three volumes we present an overview of adenovirus research In the second volume we turn our attention to such topics as DNA replication recombination and integration and post transcriptional

control This the third volume then looks at transformation and E1A adenovirus genetics pathogenesis and gene therapy

The Molecular Repertoire of Adenoviruses II Walter Doerfler, Petra Böhm, 2012-12-06 For decades this virus system has served and continues to do so to pioneer investigations on the molecular biology biochemistry and genetics of mammalian cell systems This three volume work presents an up to date account of recent basic research in one of the most important experimental systems for biochemical cell biological genetic virological and epidemiological investigations in mammalian molecular biology In this the second of three volumes the attention is turned to such topics as DNA replication recombination and integration and post transcriptional control The chapters have been written by an international group of leading experts in their respective fields of interest

Transacting Functions of Human Retroviruses Irvin S.Y. Chen, Hilary Koprowski, A. Srinivasan, P.K. Vogt, 2012-12-06 The coding domains of simple retrovirus genomes direct the synthesis of virion proteins Complex retroviral genomes generate in addition to virion proteins regulatory transacting proteins that are translated from multiple spliced messenger RNAs and fulfill important functions in the virus life cycle All human retroviruses have such complex genomes The transacting proteins of these pathogens are attractive targets for therapeutic intervention because they are viral specific are essential for efficient virus replication and may be mediators of viral pathogenicity In summarizing the current knowledge on the regulatory transacting proteins of human retroviruses this volume makes an important contribution toward the control of virus disease

Current Topics in Microbiology and Immunology Barry T. Rouse, 1967 Although upstaged by the tragic appearance of the human immunodeficiency virus herpes simplex viruses HSV types 1 and 2 continue to be major human pathogens against which we lack acceptable vaccines or other means of immunological control The virus is large and complex coding for 70 or more proteins Although many mysteries remain to be unraveled our knowledge base regarding genomic organization gene expression and regulation pathogenesis and immune recognition of component parts is quite considerable Indeed meetings devoted entirely to herpesviruses are conspicuous by their frequency and excellent yet sometimes exclusive attendance The purpose of this volume is to compile in a single book a series of reviews by leading investigators that deal with various aspects of virus host interactions and which hopefully will provide clues as to how to best manage HSV from an immunobiological perspective Ultimately one anticipates that a full understanding of virus host interaction will lead to strategies useful for the prevention and control of HSV The state of current progress with conventional vaccines is presented as is a chapter on intracellular immunization This latter novel approach to virus infections comes at approximately the bicentenary of Jenner's introduction of a successful conventional immunization strategy

The Role of Nitric Oxide in Physiology and Pathophysiology Hilary Koprowski, Hiroshi Maeda, 2012-12-06 Nitric Oxide NO an endogenous free radical has been shown recently to mediate several important biological effects It plays a neurotransmitter like role in vascular endothelium a second messenger role in N methyl D aspartate NMDA responsive neurons in the central nervous system CNS a neurotoxic role after its release from these

neurons and a cytotoxic role after its release by macrophages This volume reviews among other topics the basic chemistry and physical properties of S-nitrosothiols RS-NO and their biochemical mechanisms of action NO synthase isozymes NO synthase structure mechanisms of NO synthesis regulation of NOS expression and posttranslational modification and mechanisms involving NO of CNS damage in virus infections

An Antigen Depository of the Immune System:

Follicular Dendritic Cells Marie H. Kosco-Vilbois, 2012-12-06 Follicular dendritic cells (FDCs) are unique among cells of the immune system While their morphological characteristics resulted in their inclusion as a dendritic cell type they differ quite significantly from the other members of the dendritic cell family In contrast to T cell associated dendritic cells or the Langerhans cells found in the skin FDCs reside in highly organized B cell follicles within secondary lymphoid tissues This site of residence provided a nomenclature committee in 1982 with the second descriptive factor for the derivation of their name The cardinal feature of FDCs is to trap and retain antigen on the surface of their dendritic processes for extended amounts of time and it is this feature that provides the conceptual component for the title of this book In response to an antigenic challenge primary B cell follicles undergo dynamic events giving rise to germinal centers which are associated with activation expansion and differentiation processes of B cells The interactions of B cells with FDCs and T cells in the germinal centers are essential for generating the complete repertoire of antibody isotypes obtained during an antibody response In addition stimuli either initiated or maintained during the germinal center response leads to production of high affinity antibodies through the processes of somatic mutation and clonal selection In this context FDCs act as a pivotal source of antigen They accumulate foreign proteins e.g.

Borna Disease Hilary Koprowski, W. Ian Lipkin, 2012-12-06 Borna disease was first described over 200 years ago in what is now Southeastern Germany as a fatal neurologic affliction of horses and was considered a curiosity for many decades The causative agent was unknown and the animal species infected in nature were limited to horses and sheep Today as described in this volume the host range has extended to all warm blooded animals the genes and proteins of the virus have been identified and many of the mechanisms responsible for behavioral disturbances are understood Serologic studies suggest that BDV or related agents are likely to play a role in human neuropsychiatric diseases

Transposable Elements Heinz Saedler, Alfons Gierl, 2012-12-06 Most genes are lined up on chromosomes like pearls on a string However a certain class of genes differ by being highly mobile and the mechanism they are termed transposons Their properties of transposition will be described in this book

ism is the rule irregularities like a spot on a Where uniformity plain coloured surface strike the eye Thus the phenomenon of has long been a source of fascina variegation among organisms In plants variegation is most easily recognised as irregularity in pigment patterns on leaves flowers and seeds but other traits as leaf or flower form might also show characteristics such In 1588 such a variegation pattern was described in variegation kernels of Zea mays by Jacob Theodor of Bergzabern a village is so detailed that if south of Strasbourg The report by Theodor one counts the different kernel phenotypes described it be is looking at a Mendelian segregation comes clear that the

author had tion It goes without saying that Latin American Indians already bred such variegated material much earlier but no descriptions have yet been uncovered Meanwhile genetically heritable variegation patterns have been described at many different loci in more than 34 different plant species **Pathways for Cytolysis** Gillian M. Griffiths, Jürg

Tschopp, 2012-12-06 At first glance the destruction of a target cell by a killer cell seems to be a simple endeavor A closer look however reveals the complex mechanisms underlying this task Killer cells are able to specifically recognize altered or infected cells A transient contact with target cells has to be established to allow the delivery of lethal molecules or signals The killer cell then disengages from the damaged cell and moves away to kill other target cells After the eradication of the target cells the number or activity of activated killer cells has to be reduced to avoid nonspecific killing of innocent cells In 1992 Herman Eisen concluded in his introductory remarks in the most recent volume on lymphocyte cytotoxicity EISEN 1993 Given the immense amount of effort made in the past decade to understand these lytic mechanisms it seems surprising that a consensus about the principal mechanisms has not been reached Since that time advances made in the field of cell mediated cytolysis are so significant that our knowledge regarding the lytic mechanisms has been considerably augmented Much of this is due to studies with transfectants and mutants either naturally occurring or generated by gene targeting It is now clear that there are two predominant pathways which act hand in hand and lead to efficient target cell destruction **Gene**

Silencing in Higher Plants and Related Phenomena in Other Eukaryotes Peter Meyer, 2012-12-06 In recent years several different gene silencing phenomena have been discovered in plants The book summarizes the most recent data on gene silencing phenomena such as trans inactivation paramutation and co suppression Plant researchers will find this edition a valuable help in differentiating between a number of puzzling and partly contradictory gene silencing events Those not familiar with plant molecular biology are introduced into the relevant methods and scientific models In addition examples and models of gene silencing in filamentous fungi Drosophila and mammalian systems are presented By providing a comparative update on gene silencing effects in different eukaryotes this book should stimulate communication among scientists working in diverse areas of eukaryotic gene regulation **Trophic Regulation of the Basal Ganglia** Kjell

Fuxe, 1993-12-31 Trophic Regulation of the Basal Ganglia Focus on Dopamine Neurons examines neurotransmitters The book first discusses the role of fibroblast growth factor 2 FGF 2 and ganglioside GM1 and the trophic regulation of the basal ganglia Biochemical and histochemical studies on the cellular localization of FGF 2 mapping of FGF 2 and its receptors in the basal ganglia postnatally and adulthood and mapping of the ganglioside GM1 distribution in the basal ganglia are presented The text also explains glucocorticoid and estrogen effects on the nigrostriatal and mesolimbic dopaminergic systems fac

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