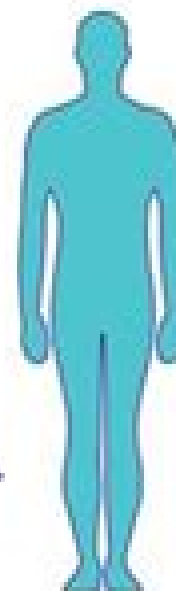
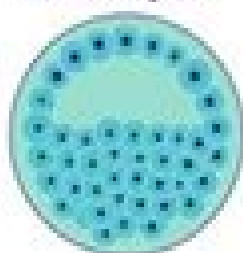


Zygote



Blastocyst



Reprogramming factors
Oct3/4, Sox2, Klf4 and c-Myc

Pluripotent Stem Cells

FGF

Activin-A, BMP-4,
FGF, Wnt

Activin-A,
FGF, Wnt-3a

Ectoderm

Mesoderm

Endoderm

EGF, FGF

Neural Progenitors



BMP-4

Skin Progenitors



VEGF, IL-3,
IL-6, IL-11,
SCF

Hematopoietic Progenitors



FGF,
TGF- β 1,
PDGF,
Insulin

Mesenchymal Progenitors



Activin,
FGF, VEGF,
Wnt-3a, SCF,
IL-3, IL-6,
IL-11

Cardiac Progenitors



FGF-10,
FGF-7,
Noggin

Pancreas Progenitors



BMP-4,
FGF-4,
HGF

Liver Progenitors



BMP-4,
FGF,
Wnt-2a,
Wnt-2b

Lung Progenitors



Growth Factors In Cell And Developmental Biology

Emilie Sanchez



Growth Factors In Cell And Developmental Biology:

Growth Factors in Development Carmen Birchmeier, 2011-11-17 This new volume of the renowned serial *Current Topics in Developmental Biology* covers the important features of growth factors in development With an international board of authors this volume will be invaluable for researchers in cell developmental and molecular biology Provides researchers an overview and synthesis of the latest research findings and contemporary thought in the area This volume provides an up to date and timely perspective

Biology of Growth Factors J. E. Kudlow, 2013-11-09 Growth factors are elaborated to control the growth of cells in such physiological processes as wound healing tissue regeneration and the immune response Abnormal production of these growth factors their receptors or intracellular mediators of their action may lead to disease states including oncogenesis This volume will focus on exciting developments in defining the precise molecular lesions that permit the conversion of controlled proliferative signals to neoplasia on the possible involvement of growth factors in the development of blood vessel diseases as seen in diabetes and atherosclerosis on the altered immune surveillance that leads to autoimmunity and on the fundamental mechanisms by which growth factors signal their target cells We expect that the contents of this volume will help promote understanding of the role of these fundamental biological processes and their alterations in a wide variety of disease states and stimulate new investigations in this important area of biomedical research

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Current Topics in Developmental Biology H. R. BODE (ed), 1991

Growth Factors and Signal Transduction in Development Marit Nilsen-Hamilton, 1994-06 Describes the interactions of growth factors and their receptors and the subsequent signal transduction pathways that they activate Emphasis is placed on the role of these signals in directing developmental events The contributors provide a mixture of biophysical and biochemical perspectives

Hormones and Growth Factors in Development and Neoplasia Robert B. Dickson, David S. Salomon, 1998-05-06 Hormones and Growth Factors in Development and Neoplasia Edited by Robert B Dickson Lombardi Cancer Research Center Georgetown University David S Salomon Laboratory of Tumor Immunology and Biology National Cancer Institute NIH The study of hormones is critical to our understanding of developmental aberrations leading to cancer and the discovery of polypeptide growth factors has led to profound insights into the duality of control of development and cancer by hormones at the tissue and cellular levels In this book leading researchers in the field present a cohesive overview of several important growth factor systems and how they interact with endocrine hormones in the context of tissue tissue interactions control of cellular growth

differentiation and death and reciprocal control of receptors and ligands at the molecular level In its first two sections Hormones and Growth Factors in Development and Neoplasia introduces important growth factors and hormonal systems in invertebrate and amphibian model systems highlights early evolutionary and developmental functions for the classes of molecules later shown to be important in human cancer establishes the roles of growth factors and hormones in mammalian development and focuses on early embryonic events and later events leading to sexual dimorphism The book s third section discusses in detail the control of postnatal developmental processes in male and female reproductive tracts focusing on the prostate and mammary glands as well as the female reproductive tract all of which are of special importance in hormonally driven cancers Finally the book takes a direct look at cancers and the molecular mechanisms of hormone growth factor interactions Among the many topics covered in this timely volume are Ecdysone in development of Drosophila The progesterone receptor in mammalian development Regulation of cell survival and apoptosis in the reproductive tracts and the breast Hormones growth factors oncogenes and prostate cancer With its novel approach authoritative coverage and broad scope Hormones and Growth Factors in Development and Neoplasia is informative and relevant for researchers across a spectrum of disciplines including cancer research endocrinology developmental biology and cell biology

Molecular Biology and Physiology of Insulin and Insulin-Like Growth Factors Derek LeRoith,Mohan K. Raizada,2012-12-06 This volume addresses a fundamental puzzle in biology and medicine namely how does tissue develop repair and replace itself The answer appears to lie in growth factors and their regulation To thrive and survive we need growth factors and this book concentrates on two factors that are related to growth hormone Growth hormone does not act directly on all tissues but mediates many of its actions through the release of insulin like growth factors from the liver The growth factors were originally called somatomedins by McConaghey and Sledge 1 who discovered that they mediated growth like effects of growth hormone However the factors were purified on the basis of their insulinomimetic actions on fat and muscle and it is their relationship to the insulin family of pep tides that now gives them their name 2 3 of insulin like growth factors IGFs They mediate the actions of growth hormone on the proteoglycan synthesis of cartilage and produce mitogenic effects in fibroblast cultures

Growth Factors in Biology and Medicine David Evered,Jonathan Nugent,Julie Whelan,2009-09-14 The Novartis Foundation Series is a popular collection of the proceedings from Novartis Foundation Symposia in which groups of leading scientists from a range of topics across biology chemistry and medicine assembled to present papers and discuss results The Novartis Foundation originally known as the Ciba Foundation is well known to scientists and clinicians around the world

Cell and Molecular Biology of Colon Cancer Leonard H. Augenlicht,2019-06-04 Published in 1989 The volume begins with a description of cell types and possible lineage in the normal colon by Colony a subject one would be hard pressed to find reviewed elsewhere especially in as incisive a manner

Biomedical Index to PHS-supported Research ,1987

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1992 *Research Awards Index* ,1989

Molecular Control of Proliferation and Differentiation John Papaconstantinou, 2012-12-02 Molecular Control of Proliferation and Differentiation documents the proceedings of the 35th symposium of The Society for Developmental Biology entitled Molecular Control of Proliferation and Differentiation held at Asilomar Monterey Peninsula California June 8 11 1976 The contributions made by researchers at the symposium are organized into seven parts Part I presents a paper on cell communication in embryological development Part II includes studies on growth factors including fibroblast growth factor and epidermal growth factor Part III examines the factors affecting nerve cell differentiation and function It includes papers on nerve growth factor and peptides as central nervous system neurotransmitters Part IV focuses on cell interactions in blood cell development It includes studies on factors affecting the differentiation of blood cells and the proliferation of hemopoietic stem cells in vitro Part V examines cell interactions in the immune system Part VI deals with cell interactions in organogenesis Part VII covers the factors effecting differentiation in lower eukaryotes

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Xenopus laevis: Practical Uses in Cell and Molecular Biology, 1992-02-03 This volume presents the first comprehensive treatment of the wide range of uses for *Xenopus laevis* oocytes and embryos in cell and molecular biology Each chapter includes background information experimental protocols and suggested applications An extensive array of techniques is featured The authors are experienced researchers who have written chapters that will be useful to both experienced researchers and to those new to *Xenopus* as an experimental system Full color plates and diagrams enhance the educational value of this book which provides a valuable permanent resource for all laboratories that use *Xenopus* Features approximately twenty full color plates illustrating experimental techniques and results and depicting embryonic development Provides complete coverage of *Xenopus laevis* as an experimental system including Embryonic development genetics and laboratory care Up to date protocols for experimental techniques using oocytes and embryos General information listing recipes suppliers sequences codons and clones

Saga Of The Nerve Growth Factor, The: Preliminary Studies, Discovery, Further Development Rita

Levi-montalcini,1997-04-01 This volume is a collection of articles written by Nobel Laureate Rita Levi Montalcini and published from 1942 to 1995 Studies described in the first part set the stage for the discovery of a protein molecule which became known as the Nerve Growth Factor NGF described in detail in the second part The NGF synthesized in minute amounts in all vertebrate tissues plays an essential role in the differentiation and survival of several nerve cell populations in the peripheral and central nervous system The discovery of the NGF was defined by the Nobel Foundation as a milestone in developmental neurobiology and the author was awarded in 1986 with this prestigious award Studies pursued in subsequent years and still in progress have unveiled other fundamental properties of the NGF described in the third part of this volume

Molecular Biology of B-Cell and T-Cell Development John G. Monroe, Ellen Rothenberg, 2013-03-14 Despite the tremendous diversity of the cells of the hematopoietic system they are all derived from common precursor cells that are generated in the fetus and persist into adult life In this regard Band T lymphocytes which comprise the two arms of the antigen specific and inducible immune system though functionally very different are descendants of the same stem cell precursor In the past several years we have witnessed an explosion of information regarding the process by which differentiation of B and T cells from stem cells occurs This information like the answers to most important biological questions has come from multiple and diverse directions Because all hematopoietic cells arise from common precursors complex regulatory processes must be involved in determining commitment to various lineages Understanding commitment to the B or T cell lineage remains incomplete however identification of transcription factors necessary for progression along specific B and T cell pathways suggests that we are on the verge of understanding the molecules involved in the initial fate determining steps Studies of this type previously could be accomplished only in nonmammalian systems that are more amenable to genetic approaches However new technologies allow increasingly elegant and informative studies in mammalian systems particularly for cells of the hematopoietic system

Current Topics in Developmental Biology, 1996-05-23 This volume continues the custom of addressing developmental mechanisms in a variety of experimental systems by offering timely reviews and incisive analysis of key research in developmental biology The conceptual sequence of topics begins with cell cycle regulation during development and differentiation continues with the role of the epididymis and with sperm competition gastrulation and embryonic stem cells and concludes with considerations of differentiation in muscle cells and neurons This volume not only is valuable to researchers at the forefront of animal development but also is a friendly introduction to students and professionals who want an introduction to cellular and molecular mechanisms of development

Encyclopedia of Cell Biology, 2015-08-07 The Encyclopedia of Cell Biology Four Volume Set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences This important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading Each entry is built with a layered approach to the

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