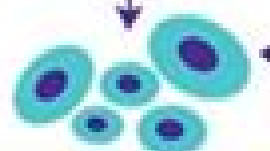
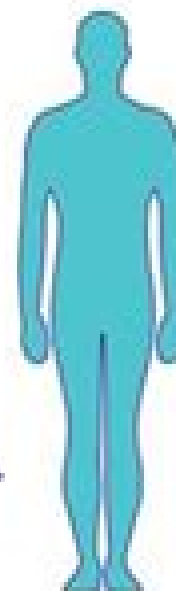
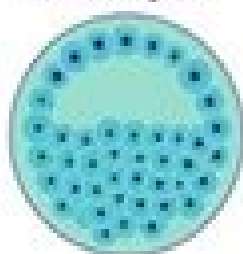


Zygote



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 And Stem Cells

Enrique Pimentel



Growth Factors And Stem Cells:

Fibroblast Growth Factors and Stem Cells in Regenerative Pharmacology and Anti-Aging Intervention

Zhouguang Wang,Xiaokun Li,Q. Adam Ye,Saverio Bellusci,Yidong Wang,2022-05-31 **Study Reveals How Growth Factors Affect Human Stem Cells** , Howard Hughes Medical Institute located in Chevy Chase Maryland offers the full text of the October 10 2000 article entitled Study Reveals How Growth Factors Affect Human Stem Cells Researchers have applied eight growth factors to cultured human embryonic stem cells to observe their effects on cell differentiation The experiment found that each of the growth factors had differences in its effects Different growth factors may act as inducers in directing stem cell differentiation Handbook of Growth Factors Enrique Pimentel,1994-06-02 Handbook of Growth Factors Volume III is devoted to hematopoiesis and its regulation by endogenous factors with growth stimulatory and growth inhibitory properties The book provides detailed discussions on signaling agents related to the regulation of hematopoiesis including the interleukins the colony stimulating factors the interferons the tumor necrosis factors the erythropoietic growth factors the platelet derived growth factor the leukemia inhibitory factor and the transferrins The structure and function of each factor is covered in detail as well as its receptor and postreceptor mechanism of action and its possible role in neoplastic processes The book also explores the present state of the knowledge about megakaryocyte growth factors and macrophage derived growth factors Growth Factors and Stem Cells Antony Burgess,Nicos Nicola,1983 *Fibroblast Growth Factors* Xiaokun Li,2023-11-16 Fibroblast Growth Factors Second Edition systematically introduces readers to FGF in the fields of injury repair and regeneration endocrinology and metabolism structure and modification pharmaceuticals pharmacology FGF FGFR inhibitor engineering and new drug development Fibroblast growth factors FGFs are secreted protein ligands that act in a paracrine or endocrine fashion to carry out their pleiotropic functions in development tissue homeostasis and metabolism This book covers the work from Li s team from 2013 to 2018 and will be a primer for scientists particularly young students entering the FGFs field with an eye on basic research and application Contains approximately 90% new material on topics covered Includes information on breakthrough discoveries which have been made since the publication of the first edition Introduces detailed research methods and technologies of FGFs so the book can be used as a toolbox by the user Includes comprehensive and systematic research and industry application Hematopoietic Cell Growth Factors—Advances in Research and Application: 2012 Edition ,2012-12-26 Hematopoietic Cell Growth Factors Advances in Research and Application 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Hematopoietic Cell Growth Factors in a concise format The editors have built Hematopoietic Cell Growth Factors Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Hematopoietic Cell Growth Factors in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Hematopoietic Cell Growth

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Hematopoietic Growth Factors in Oncology Gary Lyman, David C. Dale, 2010-11-05

Progress in the treatment of cancer over the past two decades has been rapid with many new and novel therapeutic modalities arriving at an unprecedented pace. Overall cancer mortality rates have actually begun to fall in parallel with progress in the diagnosis and treatment of malignant disease. Despite our advances in the understanding of the biology and molecular genetics of cancer as well as the availability of an increasing array of effective therapies, cancer treatment today and for the foreseeable future will include the traditional modalities of surgery, radiation therapy, and chemotherapy. Myelosuppressive agents with their potential hematopoietic toxicities remain the mainstay of systemic treatment for both metastatic and early stage cancer. The complications of cancer chemotherapy have serious impact on a patient's well-being and overall quality of life. Fortunately, advances in cancer treatment have been accompanied by equally impressive progress in the availability of a wide array of supportive care modalities which have greatly enhanced the ability of oncologists to minimize the impact of cancer and its treatment on patient quality of life as well as improve delivery of potentially curative cancer treatment. Despite the increasing complexity of modern cancer treatment, it is the obligation of the oncologist as well as the entire cancer care team to be certain that cancer patients receive the optimal supportive care available for their disease and its treatment. Among the most serious and potentially life-threatening toxicities of cancer treatment are the hematologic toxicities accompanying myelosuppression, including anemia and associated asthenia and fatigue, neutropenia and fever associated with infection in the immunocompromised patient, and thrombocytopenia and accompanying risk of bleeding. Special supportive care needs arise in the very elderly cancer patient that may tax the ability of even the most skilled clinician. Despite the considerable progress that has been made with more effective and safer treatment strategies, myelosuppressive chemotherapy will remain the mainstay of systemic treatment for cancer for the foreseeable future. While considerable progress has occurred, better methods and broader application of supportive care measures are needed to reduce the symptomatic effects of cancer and the associated toxicities associated with cancer treatment. No area of cancer supportive care better illustrates the progress that has resulted from advances in our understanding of cellular and molecular biology, genetic engineering, and the development of more effective yet often more toxic cancer treatments than that of the hematopoietic growth factors. This volume will review and integrate the major advances in our understanding of the underlying molecular biology and pharmacology of these agents along with the results of well-designed and executed randomized controlled trials of the erythroid stimulating agents, the myeloid growth factors, and the new thrombopoietic agents, each addressing a major threat

associated with bone marrow suppression accompanying cancer treatment The current clinical utilization of these agents is based on numerous randomized controlled trials and meta analyses along with evidence based clinical practice guidelines developed by professional societies guiding their appropriate and cost effective use in clinical care

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Clinical Applications of Cytokines and Growth Factors John R. Wingard, George D. Demetri, 2012-12-06 The hematopoietic system plays roles that are crucial for survival of the host delivery of oxygen to tissues arrest of accidental blood leaking from blood vessels and fending off of invading microbes by humoral cell mediated and phagocytic immunity The activity of the hematopoietic system is staggering daily a normal adult produces approximately 2.5 billion erythrocytes 2.5 billion platelets and 1 billion granulocytes per kilogram of body weight This production is adjusted in a timely fashion to changes in actual needs and can vary from nearly none to many times the normal rate depending on needs which vary from day to day or even minute to minute In response to a variety of stimuli the cellular components of the blood are promptly increased or decreased in production to maintain appropriate numbers to optimally protect the host from hypoxia infection and hemorrhage How does this all happen and happen without over or under responding There has been extraordinary growth in our understanding of hematopoiesis over the last two decades Occupying center stage is the pluripotent stem cell and its progeny Hematopoietic stem cells have been characterized by their capacity for self renewal and their ability to proliferate and differentiate along multiple lineages Few in number the stem cell gives rise to all circulating neutrophils erythrocytes lymphoid cells and platelets In hematopoietic transplantation the stem cell is capable of restoring long term hematopoiesis in a lethally irradiated host

Hematopoietic Growth Factors in Oncology George Morstyn, MaryAnn Foote, Graham J. Lieschke, 2004-02-05 Whether to promote platelet recovery or to ameliorate the complications of cancer and the side effects of chemotherapy hematopoietic growth factors HGFs now account for more than 5 billion per year of the US health care budget In Hematopoietic Growth Factors in Oncology Basic Science and Clinical Therapeutics leading oncologists

hematologists and nephrologists comprehensively review the role of HGFs in clinical practice explain the molecular basis of their effects and consider potential future developments The authors focus on the use of HGFs in oncology describing their cutting edge application to patients with lung cancer Hodgkin s and non Hodgkin s lymphoma breast cancer chronic lymphocytic leukemia AIDS related malignancies myelodysplastic syndromes and aplastic anemias Among the HGFs described are granulocyte colony stimulating factor erythropoietic factors thrombopoietic factors and stem cell factor and its receptor c kit To complete their survey the contributors also consider the safety and economic implications of HGFs and the future potential for HGF antagonists in oncology Comprehensive and up to date Hematopoietic Growth Factors in Oncology Basic Science and Clinical Practice offers an integrated survey of the role of HGFs in treating and preventing anemia neutropenia and thrombocytopenia in patients with malignant and nonmalignant diseases along with fresh insights into drug development and how basic discoveries in this area can be optimally translated into clinical benefit

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The Growth Hormone/Insulin-Like Growth Factor Axis during Development Isabel Varela-Nieto, Julie Ann Chowen, 2005-12-17 Insulin like growth factor IGF I is a widely expressed growth factor with diverse effects on many tissues throughout development and in adult life The purpose of this work is to provide detailed and updated information on the role of the growth hormone GH IGF axis in fetal and postnatal development as well as its physiological functions and implications in pathology

Hormones Growth Factors & Oncogenes Enrique Pimentel, 1987-06-30 This text examines the hormones and peptide growth factors involved in the regulation of metabolism growth and differentiation in metazoan organisms and proto oncogene expression Investigates protein products of some proto oncogenes for involvement in the transductional and post transductional and mechanisms of hormones and peptide growth factors

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Peptide Growth Factors and Their Receptors II Michael B. Sporn, Anita B. Roberts, 2012-12-06 This two volume treatise the collected effort of more than 50 authors represents the first comprehensive survey of the chemistry and biology of the set of molecules known as peptide growth factors Although there have been many symposia on this topic and numerous publications of reviews dealing with selected subsets of growth factors the entire field has never been covered in a single treatise It is essential to do this at the present time as the number of journal articles on peptide growth factors now makes it almost impossible for anyone to stay informed on this subject by reading the possible literature At the same time it is becoming increasingly apparent that primary literature on these substances are of universal importance in biology and medicine and that the original classification of these molecules based on the laboratory setting of their discovery as growth factors lymphokines cytokines or colony stimulating factors was quite artificial they are in fact the basis of a common language for intercellular communication As a set they affect essentially every cell in the body and in this regard they provide the basis to develop a unified science of cell biology germane to all of biomedical research

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