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Tissue Growth Factors. Tissue growth factors can be generally categorized as polypeptides that are secreted locally and act through paracrine or autocrine mechanisms to affect cellular growth and function. However, several tissue growth factors are also present in the blood and GI secretions and thus may act through an endocrine mechanism, for example, IGF-I.

Tissue Growth - an overview | ScienceDirect Topics

Tissue Growth Factors. Volume 57, Handbook of Experimental Pharmacology. G V R Born, A Farah, H Herken and A D Welsh, eds. (Pp. (30) Springer Verlag. 1981. The strength'of this book lies in its comprehensive cover of a wide range of growth factors-from epidermal, platelet-derivedand nerve growth factors to proteases, glucocorticoids, chalones ...

From a logical point of view, cell division is regulated by the environment and by the ability of the cell to respond to the environmental signals. The terminology of the cell cycle, the elaborate mathematical models, and the kinetic analyses are all convenient notations and descriptions of the behavior of populations of cells. However, they tell us very little about the fundamental molecular mechanisms that control cell proliferation. Stated in other terms, what controls cell reproduction are growth factors in the environment and genes and gene products inside the cell or at its surface. This book examines the aforementioned growth factors, the study of which has made very rapid progress in the past few years. The selection of topics has been influenced by logistic considerations, but the book, as a whole, gives a broad survey of the state of the art of this exciting field. For this, thanks are due to the contributors, who have given much time to the preparation of the manuscripts and have met the deadline with a punctuality that is uncommon among biomedical scientists. I would also like to thank Ms. NORA PERRETT and the staff of Springer-Verlag for their help in editing the manuscripts and in preparing the production of the book.

Volume II of Handbook of Growth Factors presents a stimulating discussion of the best-characterized polypeptide growth factors, including insulin, insulin-like growth factors, epidermal growth factor, fibroblast growth factors, neurotrophic growth factors, and transforming growth factors. The structure and function of each growth factor is discussed, as well as its receptor and postreceptor mechanism of action and its role in neoplastic processes. Regulatory peptides with growth factor-like properties such as bombesin, angiotensin, endothelin, atrial natriuretic factor, vasoactive intestinal peptide, and bradykinin are examined in depth. Factors related to the growth of organs such as the prostate, the heart, and the mammary gland are also covered.

Volume I of this book provides a comprehensive discussion of the factors involved in regulation of the cell cycle, the general biological properties of growth factors, and the receptor and postreceptor mechanisms of action of these signaling agents. It evaluates the possible role of growth factors in the regulation of proto-oncogene and tumor suppressor gene expression, and the development of neoplastic processes is discussed in detail.

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New discoveries in the field of stem cells increasingly dominate the news and scientific literature revealing an avalanche of new knowledge and research tools that are producing therapies for cancer, heart disease, diabetes, and a wide variety of other diseases that afflict humanity. The Handbook of Stem Cells integrates this exciting area of life science, combining in two volumes the requisites for a general understanding of adult and embryonic stem cells. Organized in two volumes entitled Pluripotent Stem Cells and Cell Biology and Adult and Fetal Stem Cells, this work contains contributions from the world ' s experts in stem cell research to provide a description of the tools, methods, and experimental protocols needed to study and characterize stem cells and progenitor populations as well as a the latest information of what is known about each specific organ system. Provides comprehensive coverage on this highly topical subject Contains contributions by the foremost authorities and premiere names in the field of stem cell research Companion website - http://booksite.elsevier.com/9780123859426/ - contains over 250 color figures in presentation format

Millions of patients suffer from end-stage organ failure or tissue loss annually, and the only solution might be organ and/or tissue transplantation. To avoid poor biocompatibility – related problems and donor organ shortage, however, around 20 years ago a new, hybridized method combining cells and biomaterials was introduced as an alternative to whole-organ and tissue transplantation for diseased, failing, or malfunctioning organs—regenerative medicine and tissue engineering. This handbook focuses on all aspects of intelligent scaffolds, from basic science to industry to clinical applications. Its 10 parts, illustrated throughout with excellent figures, cover stem cell engineering research, drug delivery systems, nanomaterials and nanodevices, and novel and natural biomaterials. The book can be used by advanced undergraduate- and graduate-level students of stem cell and tissue engineering and researchers in macromolecular science, ceramics, metals for biomaterials, nanotechnology, chemistry, biology, and medicine, especially those interested in tissue engineering, stem cell engineering, and regenerative medicine.

Providing detailed knowledge about fullerene nanowhiskers and the related low-dimensional fullerene nanomaterials, this book introduces tubular nanofibers made of fullerenes, "fullerene nanotubes," as well as the single crystalline thin film made of C60, called "fullerene nanosheet." It is the first publication featuring the fullerene nanowhiskers made of C60, C70, and C60 derivatives and so forth. It demonstrates the synthetic method (liquid – liquid interfacial precipitation method) and the physical and chemical properties such as electrical, mechanical, optical, magnetic, thermodynamic, and surface properties for the fullerene nanowhiskers, including their electronic device application.

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 entired 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 im anyone person to stay informed on this subject by reading the possible for At the same time it is becoming increasingly apparent that primary literature. 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 artifactual; they are in fact the basis of a common language for intercellular communication. As a set they affect es sentially 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.

The aim of this volume is to provide those working in the field of nerve growth factors with a detailed and accurate description of the techniques now available to explore the nature, range and mechanisms of the action of established or putative nerve growth factors.

Handbook of Ionic Substituted Hydroxyapatites provides scientists and researchers with comprehensive information on the synthesis processes of hydroxyapatite, also explaining the application of substituted hydroxyapatite. The book's content is very structured and explanatory, starting with a detailed overview of biological apatite in bones and teeth, as well as a presentation of the analytical tools for hydroxyapatite. Bioceramics and the relative modern and emerging processing techniques are covered, as is 3-D printing, which has gained increasing importance within biomedical materials and in the use of hydroxyapatite in tissue engineering. Finally, the advantages and disadvantages of using ionic substitutions in clinical application are presented. Students and researchers in disciplines, such as Material Science, Ceramics, and Bioengineering will find this book to be very helpful in their work. It will also be a valuable resource for practitioners and surgeons in orthopedics, perio/implantology and maxillo-facial disciplines, and professionals working in R&D in ceramics and pharmaceuticals. Provides responses to the lack of scientific information about hydroxyapatites for biomedical applications Solves researchers ' issues regarding phase changes with respect to substituted ions and how these substitutions can alter/improve the properties of stoichiometric hydroxyapatite Explains modern clinical applications and the effects of apatites within biomedical applications Includes both the advantages and disadvantages of using ionic substitutions in clinical application