

# **Molecular and Cellular Biology of Insulin-like Growth Factors and Their Receptors**

**Edited by  
Derek LeRoith and  
Mohan K. Raizada**

# Molecular And Cellular Biology Of Insulin Like Growth Factors

**Pierre Cronjé**



## **Molecular And Cellular Biology Of Insulin Like Growth Factors:**

**Molecular and Cellular Biology of Insulin-like Growth Factors and Their Receptors** Derek Leroith, Mohan K. Raizada, 2012-12-06 An essential element in the development and functional integrity of all organisms is intercellular communication. This is achieved by the secretion of soluble messenger molecules which subsequently interact with receptor effector pathways in the responsive cells. Hormones are traditionally defined as chemical messengers synthesized by endocrine glands. Unlike hormones produced by endocrine glands, growth factors are hormone-related substances produced by many tissues and play an important role in controlling growth and development. While the exact physiological roles of growth factors have yet to be elucidated, they play important roles in the regulation of cellular proliferation and/or differentiation during ontogenesis, growth, and differentiation. During recent years, there has been a substantial increase in research related to peptide growth factors, their receptors, and modes of action. With the discovery and characterization of numerous growth factors, it became clear that these growth factors had multiple features in common with classic hormones as well as with oncogenes. Furthermore, there are distinct families of growth factors based either on structural or functional similarities. Insulin-like Growth Factors Derek LeRoith, 1991-05-28 During the past decade, the continued interest in insulin-related growth factors has been documented by a plethora of research programs and publications focused on these growth factors. Both molecular and cellular biological techniques have improved and enabled investigators to study the properties of the growth factors in depth. This volume covers the molecular genetic aspects of the growth factors, their binding proteins, and receptors, as well as those factors affecting their gene transcription and translation. In addition, aspects of the cellular action of these growth factors through their receptors and how this impacts normal cellular function are discussed. The book will provide valuable information for researchers in physiology, biology, endocrinology, and metabolism.

**Insulin-like Growth Factors** Derek LeRoith, 2024-12-20 During the past decade, the continued interest in insulin-related growth factors has been documented by a plethora of research programs and publications focused on these growth factors. Both molecular and cellular biological techniques have improved and enabled investigators to study the properties of the growth factors in depth. This volume covers the molecular genetic aspects of the growth factors, their binding proteins, and receptors, as well as those factors affecting their gene transcription and translation. In addition, aspects of the cellular action of these growth factors through their receptors and how this impacts normal cellular function are discussed. The book will provide valuable information for researchers in physiology, biology, endocrinology, and metabolism. **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

Insulin-Like Growth Factors Douglas Yee,2004 Over the past five years there has been an explosion of targeted therapies for cancer treatment In most cases these therapies have been based on pre clinical data showing that specific molecules play an important role in regulating the malignant phenotype In breast cancer there is compelling rationale that such targeted strategies should be successful Targeting of estrogen receptor ER has proven to be a successful way to reduce breast cancer risk decrease the risk of death and recurrence in an adjuvant setting and remains the first choice of treatment for advanced disease With this success it is hoped that other molecular pathways could also be successfully exploited This publication reviews the role of the insulin like growth factors IGFs in breast cancer Over 100 years ago George Beatson made an intuitive leap connecting breast cancer therapy with ovarian function He removed the ovaries from a premenopausal woman with breast cancer he reasoned that ovarian function regulated normal mammary gland function therefore the ovaries may influence the malignant phenotype Other discussion included cover the function of IGF action in the normal mammary gland using mouse model systems where expression and function can be manipulated and the patterns of expression of the IGFs their binding proteins and their receptors in the normal gland *Growth Factors and their Receptors in Cancer Metastasis* Wen G. Jiang,K. Matsumoto,T. Nakamura,2006-04-11 about the involvement of signaling Transforming growth factor in tumor development and metastasis plays a central role in the signaling network that controls morphogenesis 2 THE BASICS OF growth and cell differentiation in SIGNALING multicellular organisms The different members of this pleiotropic family of 2 1 receptor signaling growth and differentiation factors seem to The family of growth factors regulate many processes in human disease consists of more than thirty members in and in particular tumor development humans alone 15 16 They cluster in Our understanding of how two major groups the group composed of initiated signals are mediated has both the bone morphogenetic proteins increased dramatically in the last fifteen BMP and growth and differentiation years Firstly the prototype of factors GDFs and the group formed by this still constantly growing family was the Activins and Nodals The two identified and cloned 1 Secondly the groups differ in their use of receptors for family receptors were transmembrane receptors and the identified by expression cloning from subsequent activation of the mammalian tissue culture 2 7 Thirdly transcriptional mediators for recent genetic screens in Drosophila reviews see 13 14 17 **Ruminant Physiology** Pierre Cronjé,2000 The International Symposium on Ruminant Physiology ISRP is the premier forum for presentation and discussion of advances in knowledge of the physiology of ruminant animals This book brings together edited versions of the keynote

review papers presented at the symposium      *Growth Factors and Wound Healing* Thomas R. Ziegler, Glenn F. Pierce, David N. Herndon, 2012-12-06 The biology of wound healing and tissue repair are increasingly being defined At the same time the availability of recombinant peptide growth factors for clinical investigation has prompted numerous trials of growth factor administration as adjunctive therapy to enhance the rate and quality of acute and chronic wound repair New basic science information on growth factor function and regulation obtained in the research laboratory is actively being applied in animal studies and in clinical research settings In addition to studies of surface wounds an increasing number of investigations on growth factor administration have focused on healing and repair in nondermal tissues such as the intestinal tract and other organs While the amount of new information on the molecular biology of growth factor expression signaling and function has been exponential in recent years results of many clinical trials on growth factor administration in wound healing have been disappointing This maybe due in part to the heterogeneity of clinical wounds and the patients who harbor them less than adequate standardization of care in experimental and control groups issues related to drug dosing and inadequate control for important issues relevant to healing such as nutrient intake and underlying nutritional status      **International Textbook of Diabetes Mellitus** R. A. DeFronzo, E. Ferrannini, Paul Zimmet, George Alberti, 2015-03-11 The International Textbook of Diabetes Mellitus has been a successful well respected medical textbook for almost 20 years over 3 editions Encyclopaedic and international in scope the textbook covers all aspects of diabetes ensuring a truly multidisciplinary and global approach Sections covered include epidemiology diagnosis pathogenesis management and complications of diabetes and public health issues worldwide It incorporates a vast amount of new data regarding the scientific understanding and clinical management of this disease with each new edition always reflecting the substantial advances in the field Whereas other diabetes textbooks are primarily clinical with less focus on the basic science behind diabetes ITDM s primary philosophy has always been to comprehensively cover the basic science of metabolism linking this closely to the pathophysiology and clinical aspects of the disease Edited by four world famous diabetes specialists the book is divided into 13 sections each section edited by a section editor of major international prominence As well as covering all aspects of diabetes from epidemiology and pathophysiology to the management of the condition and the complications that arise this fourth edition also includes two new sections on NAFLD NASH and non traditional associations with diabetes and clinical trial evidence in diabetes This fourth edition of an internationally recognised textbook will once again provide all those involved in diabetes research and development as well as diabetes specialists with the most comprehensive scientific reference book on diabetes available      Pediatric Endocrinology Ora Hirsch Pescovitz, Erica A. Eugster, 2004 Pescovitz and Eugster both affiliated with the Section for Pediatric Endocrinology Diabetology at Indiana University School of Medicine provide essential information on the mechanisms diagnosis and management of pediatric endocrine disorders Aspects of human development and physiology are combined with information on etiology diagnosis and treatment Within each of the traditional endocrine systems

contemporary molecular genetics and developmental endocrinology are presented followed by material on specific clinical disorders and therapeutic strategies Interspersed throughout the book are chapters devoted to emerging issues such as childhood obesity short stature and treatment of children with disorders of sexual differentiation B w photos and diagnostic images are included Annotation 2004 Book News Inc Portland OR booknews com source inconne

**Handbook of the Biology of Aging** Edward J. Masoro, Steven N. Austad, 2011-04-28 The Handbook of the Biology of Aging Sixth Edition provides a comprehensive overview of the latest research findings in the biology of aging Intended as a summary for researchers it is also adopted as a high level textbook for graduate and upper level undergraduate courses The Sixth Edition is 20% larger than the Fifth Edition with 21 chapters summarizing the latest findings in research on the biology of aging The content of the work is virtually 100% new Though a selected few topics are similar to the Fifth Edition these chapters are authored by new contributors with new information The majority of the chapters are completely new in both content and authorship The Sixth Edition places greater emphasis and coverage on competing and complementary theories of aging broadening the discussion of conceptual issues Greater coverage of techniques used to study biological issues of aging include computer modeling gene profiling and demographic analyses Coverage of research on *Drosophila* is expanded from one chapter to four New chapters on mammalian models discuss aging in relation to skeletal muscles body fat and carbohydrate metabolism growth hormone and the human female reproductive system Additional new chapters summarize exciting research on stem cells and cancer dietary restriction and whether age related diseases are an integral part of aging The Handbook of the Biology of Aging Sixth Edition is part of the Handbooks on Aging series including Handbook of the Psychology of Aging and Handbook of Aging and the Social Sciences also in their 6th editions

**Human Growth Hormone Pharmacology** Kathleen T. Shiverick, Arlan L. Rosenbloom, 1995-03-09 This book addresses a wide range of basic and clinical issues in the physiology and pharmacology of growth hormone The volume is organized like a textbook It begins with factors contributing to GH gene expression the functional relationships of the GH receptor molecular biological analysis of the GH GH receptor complex and proceeds to describe the insulin like growth factor axis Transgenic models are discussed for analysis of discrete effects These discussions provide a bridge to clinically oriented discussions of growth abnormalities in GH deficient children GH insensitivity due to deficiency of the GH receptor and the concept of aging as a GH IGF I deficiency state Discussions also include the immune system as a source and a responder to GH GHRH IGF I and the effects of GH excess

*Current Catalog* National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965 70

Neuroendocrinology, 2010-05-24 Neuroendocrinology is a discipline which originated about 50 years ago as a branch of Endocrinology and that is now strictly linked to neuroscience Volumes 181 and 182 of *Progress in Brain Research* provide a rapid view of the major points presently discussed at biological and clinical levels The chapters have been written by top scientists who are directly involved in basic or clinical research and who use the most sophisticated biotechnological

techniques The volumes cover of the role of genetics in many endocrine related events like neuroendocrinological diseases and endocrine dependent cancers prostate breast etc Interesting information is also provided on possible treatments of neurodegenerative brain diseases e g Alzheimer and similar syndromes The best researchers in the field provide their conclusions in the context of the latest experimental results Chapters are extensively referenced to provide readers with a comprehensive list of resources on the topics covered Of great value for researchers and experts but also for students as a background reference

**Published Scientific Papers of the National Institutes of Health** National Institutes of Health (U.S.), National Institutes of Health (U.S.), 1990 Presents the broad outline of NIH organizational structure the professional staff and their scientific and technical publications covering work done at NIH

**The Endocrine System in Sports and Exercise** William J. Kraemer, A. D. Rogol, 2008-04-15 This valuable new addition to the Encyclopaedia of Sports Medicine series provides a comprehensive and logical look at the principles and mechanisms of endocrinology as related to sports and exercise It looks at growth hormone factors involved in exercise and the endocrinology of sport competition It considers various factors and stresses on the body that may alter sporting performance It covers topics from the acute responses and chronic adaptations of the human endocrine system to the muscular activity involved in conditioning exercise physical labor and sport activities This book is an essential reference for helping to plan better programs of physical fitness to prepare for sports competitions and to manage the medical care of athletes

Neurotrophic Factors Sandra E. Loughlin, James H. Fallon, 2012-12-02 This volume clearly synthesizes current information on defined neurotrophic factors emphasizing their localization and molecular cellular function in the central nervous system Brain development and aging neurodegenerative disorders plasticity and memory all are closely examined within the context of this rapidly expanding field Researchers in neurobiology cell biology and molecular biology will find Neurotrophic Factors an invaluable reference for their research libraries Offers the most up to date synthesis of concepts on neurotrophic factors in the nervous system Integrates molecular cellular and neuroanatomical concepts of neurotrophic factor function Includes special chapters on primary secondary and tertiary messenger systems Examines brain development differentiation neurodegenerative disorders and adult plasticity

**National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1992

Protein Kinase C in Cancer Signaling and Therapy Marcelo G. Kazanietz, 2010-06-10 Protein kinase C PKC a family of serine threonine kinases rocketed to the forefront of the cancer research field in the early 1980 s with its identification as an effector of phorbol esters natural products with tumor promoting activity Phorbol esters had long been of interest to the cancer research field due to early studies in the mouse skin carcinogenesis model which showed that prolonged topical application of phorbol esters promoted the formation of skin tumors on mice previously treated with mutagenic agents Research in the last years has established key roles for PKC isozymes in the control of cell proliferation migration adhesion and malignant transformation In addition there is a large body of evidence linking PKC to invasion and cancer cell metastasis Moreover it is now well

established that the expression of PKC isozymes is altered in various types of cancers More importantly small molecule inhibitors have been developed with significant anti cancer activity The relevance of PKC isozymes in cancer signaling is therefore remarkable This book will have 4 sections There will be 23 chapters Each section will have a brief introduction by an expert in the field 1 2 pages     Associate Training Programs in the Medical and Biological Sciences at the National Institutes of Health National Institutes of Health (U.S.),1987



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