Peptide Hormone Biosynthesis - Recent Developments

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Peptide Hormone Biosynthesis - From Nucleus to Secretory Granule

The biosynthesis of peptide hormones is now recognized to be a highly ordered series of events. These biosynthetic events can frequently be localized to a particular subcellular organelle (Fig. 1). Each organelle will be discussed in turn, to emphasize the sequential nature of the maturation process. There will be frequent references to the synthesis and processing of the corticotropin/endorphin precursor within the pituitary. This multihormone precursor is often referred to as pro-opiomelanocortin (POMC). POMC is an interesting model to study, since many post-translational modifications are manifest within its maturation products. More intriguing is the fact that processing of this multihormone precursor is tissue specific. In the pars distalis or anterior lobe of the pituitary, ACTH, B-lipotropin (\(\beta\cdot\)-LPH), and an N-terminal or 16 K fragment are the major biosynthetic products. In the pars intermedia or intermediate lobe processing is more complete, and α -melanotropin (α-MSH), corticotropin-like intermediate lobe peptide (CLIP), y-LPH, various forms of acetylated endorphin, y-MSH, and a shortened N-terminal (16K1.49) fragment are the major products (Fig. 2). More is known of this system than of many others, primarily because pituitary tissue is relatively easy to maintain in culture and lends itself well to classical pulse/chase biosynthetic experiments. Also the AtT-20 mouse pituitary tumour cell line has been an extremely useful and accurate model for anterior pituitary processing (for extensive reviews on this subject see Eipper and Mains 1980; Chrétien and Seidah 1981).

The study of peptide hormone biosynthesis, whether at the transcriptional level or at the level of post-translational processing, is progressing rapidly on several fronts. It will not be possible to discuss all aspects of this multistep process in detail. Instead, some of the recent developments which are of particular interest in our own laboratory are discussed.

The Nucleus

In eukaryotic organisms gene transcription is a nuclear event. The resulting RNA transcript must be transported to the cytoplasm for translation to take place. Recently it has been shown that conditions that acutely alter ACTH release from the anterior pituitary also have longer term effects upon the levels of POMC mRNA levels in the cytoplasm. For

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peptide research analysis synthesis and biology This book discusses the nature of the peptide bond coupling between amino acid residues and catalysis of active ester reactions The formation of hydrazides reactions of carbodiimides with amines and mixed carbonic anhydride method of peptide synthesis are also elaborated This publication likewise covers the control of racemization during peptide synthesis strategies for minimizing racemization during amide forming steps and assays for chiral purity This volume is suitable for students specialists and scientists from a broad range of disciplines concerned with The Role of Peptide Hormones in Insect Physiology, Biochemistry, and Research Awards Index ,1989 peptides Molecular Biology Processes Dov Borovsky, Yonggyun Kim, Klaus H. Hoffmann, 2021-03-22 **Bibliography of Medical** Parasitic Nematodes Malcolm W. Kennedy, William Harnett, 2013 Covering a wide range of rapidly developing fields of research into parasitic nematodes this comprehensive volume discusses the genetics biochemistry and immunology of nematode parasites of humans as well as domestic animals and plants This fully updated edition also covers new advances including horizontal gene transfer immune expulsion mechanisms genetics of susceptibility in humans nematode protein structures role of bacterial symbionts intrinsic immune response host immune system modulation modulation of allergic and autoimmune diseases and the use of parasitic nematodes or their products as therapeutics

Cumulated Index Medicus ,1972 Research Grants Index National Institutes of Health (U.S.). Division of Research Glucagon III Pierre J. Lefebvre, 2012-12-06 Glucagon III complements Glucagon I and II published in 1983 Grants, 1970 in this series as Vols 66 I and II These three volumes truly represent a glucagon encyclopedia and as such have no competitors in the scientific literature worldwide In this volume the most recent data on glucagon molecular biology are reviewed together with clinically relevant information on the role of glucagon in the pathophysiology of diabetes the place of glucagon in medical imaging or in emergency medicine Chapters are devoted to newly identified members of the glucagon family such as glucagon like peptide 1 GLP 1 and oxyntomodulin Glucagon III is a comprehensive review of all information published on this important hormone since 1983 and is the reference book on the subject Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1992 Advances in Insect Physiology, 1996-09-06 Insect physiology is currently undergoing a revolution with the increased application of molecular biological techniques to investigate the molecular mechanisms underlying the physiological responses to insect cells Advances in Insect Physiology is committed to publishing high quality reviews on molecular biology and molecular genetics in areas where they provide an increased understanding of physiological processes in insects Volume 26 of this classic series continues to provide up to date reviews on topical subjects of importance to all invertebrate physiologists and neurobiologists and contains increased coverage on the molecular biology of insect physiology Guide to Festschriften: A dictionary catalog of Festschriften in the New York Public Library (1972-1976) and the Library of Congress (1968-1976) New York Public Library. Research Libraries, 1977

Recent Progress in Hormone Research Gregory Pincus, 1947 Vols 1 issued as Proceedings of the Laurentian Hormone

Conference **The Laboratory Fish** Gary Ostrander,2000-08-29 Provides interested readers with a current understanding of the biology of fishes as it relates to their utility in the laboratory

Recent Developments In Peptide Hormone Assay And Action: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. Recent Developments In Peptide Hormone Assay And Action: Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Recent Developments In Peptide Hormone Assay And Action: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Recent Developments In Peptide Hormone Assay And Action: Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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