

# Biochemistry of Peptide Hormones and Neurotransmitters Produced by Lung Cancer

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## *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,  $\beta$ -lipotropin ( $\beta$ -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  $\alpha$ -melanotropin ( $\alpha$ -MSH), corticotropin-like intermediate lobe peptide (CLIP),  $\gamma$ -LPH, various forms of acetylated endorphin,  $\gamma$ -MSH, and a shortened N-terminal (16K<sub>1-40</sub>) 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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**Padhraic Smyth**



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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 peptides Research Awards Index ,1989

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**Cumulated Index Medicus** ,1972 Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1970 **Glucagon III** Pierre J. Lefebvre,2012-12-06 Glucagon III complements Glucagon I and II published in 1983 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

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