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## **Molecular Biology Of The Parathyroid**

Phosphate is also a key modulator of PTH secretion, gene expression and parathyroid cell proliferation. Understanding the biology of the parathyroid as well as the mechanisms of associated diseases has taken great strides in recent years. This book summarizes the molecular mechanisms involved in the function of the parathyroid gland.

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## **Molecular Biology of the Parathyroid | Tally Naveh-Many**

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The molecular biology of parathyroid disease. Backdahl M(1), Howe JR, Lairmore TC, Wells SA Jr. Author information: (1)Department of Surgery, Karolinska Hospital, Stockholm, Sweden. Advances in molecular genetics have shed important new light on the understanding of the basis for human tumors.

### **The molecular biology of parathyroid disease.**

Molecular Biology. 3. Parathyroid Glands—physiopathology. 4. Parathyroid Hormone-physiology. WK 300 M718 2005] QP188.P3M654 2005 612.4'4-dc22 2004023419 . To Dani, Assaf, Yoav and Amir . CONTENTS Preface . xiii 1. Development of Parathyroid Glands 1 Thomas Gunther and Gerard Karsenty

### **Molecular Biology of the Parathyroid**

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Advances in molecular genetics have shed important new light on the understanding of the basis for human tumors. The application of these methods has allowed for characterization of endocrine neoplasms at a level of resolution that was not previously possible. A variety of molecular techniques have been applied to the study of parathyroid tumors at the DNA level.

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The chief cells of the parathyroid gland synthesize parathyroid hormone (PTH). It is initially translated as a 115-amino-acid peptide called preproparathyroid hormone (prepro-PTH). This single-chain peptide is sequentially converted to parathyroid hormone (pro-PTH) by cleavage of the 25 amino-terminal residues (-6 to -31) ( Fig. 30.1 ) as the peptide moves through the Golgi complex.

## Molecular Biology of Parathyroid Hormone - ScienceDirect

Molecular biology of parathyroid hormone. Kemper B. The entire biosynthetic pathway of PTH has been elucidated from the determination of the chromosomal location to the eventual secretion of the hormone from the cell. The human gene is present on the short arm of chromosome 11, and restriction site polymorphisms near the gene have been detected.

## Molecular biology of parathyroid hormone.

The parathyroid hormone gene Organization of the parathyroid hormone gene. The human parathyroid hormone (PTH) gene is localized on the short arm of chromosome 11 at 11p15 (Antonarakis et al., 1983, Zabel et al., 1985).The human and bovine genes have two functional TATA transcription start sites, and the rat has only one.

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Parathyroid Physiology and Molecular Biology. Fig. 4.1. Bioactive vitamin D activates the vitamin D receptor (VDR), which interacts with a neighboring retinoic acid receptor. This complex then binds to the vitamin D response element (VDRE) in the PTH gene promoter and downregulates PTH transcription.

## Parathyroid Physiology and Molecular Biology | Ento Key

A variety of molecular techniques have been applied to the study of parathyroid tumors at the DNA level. Studies of the clonal

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derivation of adenomas and hyperplasia suggest that these entities arise through fundamentally different mechanisms. The gene for parathyroid hormone (PTH) has been cloned and mapped within the human genome.

## **The molecular biology of parathyroid disease. - Abstract**

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## **Molecular biology of the parathyroid (eBook, 2005 ...**

Molecular recognition of parathyroid hormone by its G protein-coupled receptor. Pioszak A.A., Xu H.E. Parathyroid hormone (PTH) is central to calcium homeostasis and bone maintenance in vertebrates, and as such it has been used for treating osteoporosis.

## **Molecular recognition of parathyroid hormone by its G ...**

About Parathyroid Hormone. Definition. Parathyroid Hormone (PTH) is a hormone of the parathyroid gland that regulates the metabolism of calcium and phosphorus in the body. PTH also called parathormone or parathyrin, which is an ongoing process in which bone tissue is alternately resorbed and rebuilt over time.

## **About Parathyroid Hormone - Assignment Point**

Molecular models for the interaction of parathyroid hormone (PTH) with its G-protein-coupled receptors (PTH1 and PTH2) have been developed. The proposed ligand–receptor complex is based on experimental data from spectroscopic investigations of the hormone and receptor fragments as well as theoretical structure predictions based on homology analysis with proteins of known structure. From the ...

## **Molecular Characterization of the Receptor–Ligand Complex ...**

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project. Article. Full-text available. Transcriptome dynamics of the microRNA inhibition response (vol 13, pg 6207, 2015)

### **(PDF) Parathyroid Hormone, from Gene to Protein**

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