

<<内分泌系统>>

图书基本信息

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内容概要

《内分泌系统(第2版)》内容简介：“以器官系统为中心”的医学教学模式是国际医学教育的趋势。本系列书是世界著名医药卫生出版集团爱思唯尔公司出版的一套“以器官系统为中心”的医学基础课程教材。

该套教材第1版出版后受到世界各地许多医学院校的欢迎，并被多家进行“以器官系统为中心”教学的医学院校选定为教材。

第2版根据第1版出版后教师和学生的反馈意见，结合医学知识的更新进行了全新修订。

在编写内容上，该系列教材强调基础与临床的整合。

每一章节都是围绕着一个临床病例展开，通过对病人问题的呈现以及解决过程引出对相关知识的探究，从而使与器官系统结构、功能以及疾病相关的重要的基础医学知识得到了完善的整合。

在版式安排上，图框中的病例资料与正文中的医学知识完美匹配，一步一步地激起读者的求知欲望。

本册为《内分泌系统》。

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章节摘录

版权页：插图：separate from the catalytic subunits. This physical separation causes activation of the two catalytic subunits which then phosphorylate serine and threonine residues on specific cellular proteins. When the bound cAMP dissociates from the binding sites on the regulatory subunits the kinase reassembles itself and the catalytic activity stops. Phosphorylation of these cellular proteins, usually enzymes, causes either activation or deactivation of the enzyme. This is reversed by the action of cellular phosphatases, which dephosphorylate the protein, returning the cellular activity to its basal state. An example of a cellular protein which is activated in response to phosphorylation by protein kinase A is cholesterol ester hydrolase (a hormone-sensitive lipase), which acts to liberate cholesterol in steroidogenic cells in preparation for steroid biosynthesis.

Receptor desensitization and downregulation: GPKs and beta arrestin 'When a hormone binds to a G-protein coupled receptor the receptor is usually quickly desensitized and eventually internalized within the cell for subsequent breakdown or recycling. The first step of this process involves two families of intracellular proteins which, like the G-proteins, are able to interact with all members of this receptor family. These are the beta arrestins and the G-protein coupled receptor kinases (GPK) (Fig. 2.9). Hormone binding to a receptor causes interaction of the receptor with G-proteins as we have seen above. It also attracts an enzyme of the GPK family which phosphorylates the receptor. The phosphorylated receptor has a lower binding affinity for the hormone but also attracts beta arrestin binding, which physically blocks interaction of the receptor with G-proteins and so prevents further signalling through second messengers. The desensitized receptors then move through the plasma membrane to accumulate in clathrin-coated pits (specialized areas of the cell membrane involved in endocytosis) which become internalized within the cell.

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编辑推荐

《内分泌系统(第2版)》：The Systems of the Body series has established itself as a valuable resource for all medical and other health science students following system-based courses. In this second edition all the volumes have been updated to take into account feedback from readers of the first edition. Each volume continues to present the core knowledge of basic science and clinical conditions that medical students need, offering an integrated view of the system unavailable from standard textbooks. Introduction Receptors and hormone action、 The hypothalamus and pituitary part I: the hypothalamus and posterior pituitary、 The hypothalamus and pituitary part II: the anterior pituitary、 The adrenal glands part I: the adrenal medulla、 The adrenal glands part II: the adrenal cortex、 The thyroid gland、 Hormonal control of reproduction part I: male reproductive system、 Hormonal control of reproduction part II: female reproductive system、 Hormonal control of reproduction part III: development and fertility、 Insulin and the regulation of plasma glucose、 Hormonal regulation of plasma calcium and calcium metabolism、 Miscellaneous hormones.

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