



Hormones and the Endocrine System: Textbook of Endocrinology

By Bernhard Kleine, Winfried G. Rossmannith

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Bernhard Kleine, Winfried G. Rossmannith

This book focuses on hormones, and on how they are produced in very diverse regions of the body in humans and animals. But hormones can be found not only in vertebrates, but also in insects, shellfish, spiders, mollusks, even at the origin of metazoan diversification and exhibit the same pathways of synthesis. The book addresses the different classes of hormones: protein/peptides hormones, steroids and juvenile hormones and hormones like catecholamines, thyroid hormones and melatonin. It also discusses the types of hormone receptors, the majority of which are heptahelical G-protein coupled receptors or nuclear receptors. Particular attention is paid to the organs where hormones are created, with specifics on hormonal production and release, while a dedicated chapter details hormonal regulation from very simple to highly complex schemes. The remarkable kinetics of hormones production are also shown, before the book is rounded out by chapters on evolution in the endocrine system, the genetics of endocrine diseases and doping.

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Editorial Review

From the Back Cover

This book focuses on hormones, and on how they are produced in very diverse regions of the body in humans and animals. Hormones exhibiting the same synthesis pathways are not only found in vertebrates, but also in insects, shellfish, spiders, mollusks, and they were present even at the time of metazoan diversification. The book discusses the different classes of hormones: protein/peptides hormones, steroids and juvenile hormones and hormones like catecholamines, thyroid hormones and melatonin. It also discusses the different types of hormone receptors, the majority of which are heptahelical G-protein coupled receptors or nuclear receptors. Particular attention is paid to the organs where hormones are synthesized, with specifics on production and release, while a dedicated chapter details hormonal regulation in systems ranging from the very simple to the highly complex. The remarkable kinetics of hormone production is also shown, and the book is rounded out by chapters on the evolution of the endocrine system, the genetics of endocrine diseases and doping.

About the Author

Bernhard Kleine studied Chemistry but later on turned to endocrinology and worked as scientist in Winfried Rossmannith's laboratories at the universities of Ulm and Karlsruhe. He then went into Clinical Research and gained expertise in Drug Supply management, Contract management, SOP training and Clinical database design. Currently he is programming the simulation of clinical study supply to determine feasibility and costs of almost any study.

Winfried Rossmannith is physician and head of the department of the gynecological hospital of the Klinikum Mittelbaden Baden-Baden Balg. He was laboratory leader at the university of Ulm.

Users Review

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