Strand

Neuropeptides

Regulators of Physiological Processes

This textbook is the first to bring together and synthesize the neuropeptide research of the past decade in such a comprehensive, scholarly manner. In recent years there has been increasing interest and, subsequently, active research in neuropeptides. These neuroactive molecules coordinate, integrate, and regulate physiological processes in all organisms, throughout all phases of development. Acting as neurohormones, neurotransmitters, and/or neuromodulators, they maintain physiological homeostasis and influence important behavioral patterns. This textbook is the first to bring together and synthesize the neuropeptide research of the past decade in such a comprehensive, scholarly manner. The book is divided into two parts. In Part I the author defines the basic principles of neuropeptide action, including their biosynthesis, processing, transport, distribution, and interactions with receptors and second messenger systems. Strand also discusses the intimate interaction between the neuropeptides, stress, and the immune system. In Part II she discusses the regulatory functions of the families of neuropeptide in sufficient detail to provide both the advanced student and senior investigator with a thorough understanding of the most important neuropeptides. The text also contains a complete and up-to-date reference/reading list.

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