MEDICINAL CHEMISTRY

# Neuropeptides in Neuroprotection and Neuroregeneration

Although the genomic era is no longer in its infancy, the life sciences are still facing questions about the role of endogenous proteins and peptides in homeostasis and pathologies. Delving into one of the most current fields of interest in biology and medicine, **Neuropeptides in Neuroprotection and Neuroregeneration** describes the impact of neuropeptides on neuroprotection and neuroregeneration.

The book begins with chapters describing important features of the endogenous neuropeptide systems related to their formation, receptor signaling, and inactivation. It includes chapters focused on the design and development of peptide-like drugs (peptidomimetics). In addition, the book covers:

- General aspects regarding the biosynthesis, structures, and distribution of neuroactive peptides and their receptors
- Basic mechanisms for neuropeptide action, metabolism, as well as techniques for their detection and aspects essential for the cellular mechanisms underlying brain pathology
- Neuropeptides known for their impact in neurodegenerative and neuroprotective processes
- Fundamental aspects as well as recent progress in the development of peptidomimetics of neuroprotective and cognition-enhancing peptides

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