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Altri autori (Persone)	ChadwickDerek CardewGail
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Nota di contenuto	SOMATOSTATIN AND ITS RECEPTORS; Contents; Participants; Introduction; Regulation of somatostatin gene transcription by cAMP; Processing and intracellular targeting of prosomatostatin-derived peptides: the role of mammalian endoproteases; Anatomical localization and regulation of somatostatin gene expression in the basal ganglia and its clinical implications; Molecular biology of somatostatin receptors; Characterization of somatostatin receptor subtypes; Regulation of somatostatin receptor mRNA expression; Transient expression of somatostatin receptors in the brain during development Expression of sstr1 and sstr2 in rat hypothalamus: correlation with receptor binding and distribution of growth hormone regulatory peptides Interaction of somatostatin receptors with G proteins and cellular effector systems; Somatostatin modulates voltage- dependent Ca <sup>2+</sup> channels in GH3 cells via a specific Go splice variant; A tyrosine

phosphatase is associated with the somatostatin receptor1; Function and regulation of somatostatin receptor subtypes; Somatostatin receptors: clinical implications for endocrinology and oncology Somatostatin analogues and multiple receptors: possible physiological roles Final discussion; Summary; Appendix; Index of contributors; Subject index

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Sommario/riassunto

This book describes a diverse analysis of the five somatostatin receptors; somatostatin gene regulation; somatostatin processing; mechanisms of signal transduction; and the design and use of somatostatin analogues, including their possible clinical implications. The book will provide a comprehensive summary of the cellular and molecular biology of somatostatin and its recently isolated receptors. The book will review the design and use of specific somatostatin analogues both biochemically to characterize the specific functions of somatostatin and clinically in the treatment of various tumors.

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