

1. Record Nr.	UNINA9910424636903321
Titolo	Frontiers in pharmacology of neurotransmitters // Puneet Kumar, Pran Kishore Deb, editors
Pubbl/distr/stampa	Gateway East, Singapore : , : Springer, , [2020] Â©2020
ISBN	981-15-3556-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XX, 721 p. 196 illus., 101 illus. in color.)
Disciplina	615.19
Soggetti	Pharmaceutical technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Introduction to neurotransmitters: state of the art -- Chapter 2. Drug-receptor interactions -- Chapter 3. Pharmacology and function of glutamate and its receptors -- Chapter 4. Pharmacology of gaba and its receptors -- Chapter 5. Pharmacology of acetylcholine and cholinergic receptors -- Chapter 6. Pharmacology of adrenaline, noradrenaline and their receptors -- Chapter 7. Pharmacology of dopamine and its receptors -- Chapter 8. Pharmacology of serotonin and its receptors -- Chapter 9. Pharmacology of endocannabinoids and its receptors -- Chapter 10. Pharmacology of adenosine receptors -- Chapter 11. Neuropeptides and neurotransmission -- Chapter 12. Pharmacology of gasotransmitters (nitric oxide and carbon monoxide) and their action -- Chapter 13. Pharmacology of histamine, its receptors and antagonists in the modulation of physiological functions -- Chapter 14. Pharmacology of angiotensin and its receptors -- Chapter 15. Pharmacology of melatonin and its receptors -- Chapter 16. Pharmacology of neuropeptides: substance p, vasoactive intestinal peptides (vip), neuropeptide y, calcitonin peptides and their receptors -- Chapter 17. Pharmacology of calcium channel -- Chapter 18. Pharmacology of potassium channels -- Chapter 19. Sodium channels: as an eye of the storm in various clinical pathologies -- Chapter 20. Hormones and steroids as neurotransmitters -- Chapter 21. Pharmacology of endogenous opioids, opiates and their receptors.
Sommario/riassunto	Numerous phenomenal advances have been made towards

understanding the role of neurotransmitters in the pathophysiology of neurological disorders, and these have resulted in a large number of novel molecules with the potential to revolutionize the treatment and prevention of such disorders. This is the first book to provide a comprehensive and detailed explanation of brain neurotransmitters and their receptors and associated channels. It includes a basic introduction, and also discusses the functions and recent advances and their pharmacology, highlighting the role of various computer aided drug design (CADD) strategies for the development of therapeutic ligands to modulate these receptors/ion channels. Written in an easy-to-read style, it is intended for neuroscience and pharmaceutical students and researchers working in the area of brain neurotransmitters.

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