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Nota di contenuto	A Review of the Cholinergic System and Therapeutic Approaches to Treat Brain Disorders -- Acetylcholine and Spontaneous Recognition Memory in Rodents and Primates -- Endogenous Acetylcholine and Its Modulation of Cortical Microcircuits to Enhance Cognition -- Cholinergic Signaling Dynamics and Cognitive Control of Attention -- Involvement of Nicotinic Receptors in Working Memory Function -- Nicotinic Receptors Underlying Nicotine Dependence: Evidence fromTransgenic Mouse Models -- Cholinergic Receptors and Addiction -- Behavioral and Molecular Basis of Cholinergic Modulation of Pain: Focus on Nicotinic Acetylcholine Receptors -- An Evolving Therapeutic Rationale for Targeting the 7 Nicotinic Acetylcholine Receptor in Autism Spectrum Disorder -- Activators of 7 nAChR as Potential Therapeutics for Cognitive Impairment.
Sommario/riassunto	The molecular genetics of the cholinergic system including both muscarinic and nicotinic acetylcholine receptors, cholinesterases, acetylcholine synthesis and release have provided significant insights into potential targeting for pharmacological intervention. Cholinergic drugs are being used or evaluated for the treatment of diseases. Thus,

this volume aims to broaden our understanding of the current state of cholinergic mechanisms to enable implementation of novel approaches for the development of more effective treatments.