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Nota di contenuto	Intro -- Contents -- Preface -- Chapter 1 -- Nicotine Addiction and Treatment: Recent Advances -- Abstract -- Introduction -- Nicotine Addiction -- Involvement of Nicotinic Acetylcholine Receptors -- Involvement of Neurotransmitters -- Dopamine -- Glutamate -- GABA -- Endocannabinoid System -- Endogenous Opioid System -- 5-HT -- Norepinephrine -- Involvement of Monoamine Oxidase -- Neuronal Function -- Health Effects -- Prevention -- Therapeutic Option -- Nicotine Therapy -- Non-Nicotine Therapy -- Bupropion -- Varenicline -- Nicotine Vaccine -- Research Advances -- Conclusion -- Acknowledgment -- References -- Chapter 2 -- Serotonin-Dopamine Interaction in Nicotine Addiction: Focus on 5-HT _{2C} Receptors -- Abstract -- Introduction -- Dopamine Systems -- Serotonin Systems -- 5-HT Receptors Localization -- The 5-HT ₂ Receptor Family -- Effects of Nicotine on Central Dopaminergic Function -- Effects of Nicotine on Central Serotonergic Function -- Serotonin 2C (5-HT _{2C}) and Nicotine Rewarding Properties -- Serotonergic Drug Treatment for Smoking Cessation -- Conclusion -- Acknowledgments -- References -- Chapter 3 -- Defining the Role of the Hippocampus in Nicotine Addiction -- Abstract -- Introduction -- Canonical View of Reward and Addiction -- Connectivity between the Hippocampus and the Reward Circuitry -- Nicotine-Associated Contexts and Cues -- Hippocampal Nicotinic Acetylcholine Receptors, Plasticity and Addiction -- Hippocampus, Stress and Withdrawal -- Towards a Hippocampus Model

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Sommario/riassunto

Smoking tobacco presents serious social problems with major impacts on public health. It is estimated that 25-30% of the general population in western countries are currently smoking. Tobacco use is the major preventable cause of death in the United States, responsible for more than 400,000 deaths annually. Within the USA and Europe, 70% of all smokers have tried to quit smoking at least once, but only about 6% of these succeeded in maintaining abstinence. This book covers the latest nicotine-related research. The selection of chapters has a certain unity as physiologic, pathologic and psychological themes run through the book and supply the logical connections between the various authors. This work is intended as a contribution to the reversal of the current tobacco epidemic and thereby to preventing many of the deaths attributable to tobacco predicted in this century.
