

1. Record Nr.	UNINA9910825971903321
Titolo	Nicotine addiction : prevention, health effects and treatment options // Giuseppe Di Giovanni, editor
Pubbl/distr/stampa	[Hauppauge] N.Y., : Nova Science Publishers, Inc., 2012
ISBN	1-62081-344-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (295 p.)
Collana	Substance abuse assessment, interventions and treatment
Altri autori (Persone)	Di GiovanniGiuseppe
Disciplina	616.86/5
Soggetti	Nicotine addiction - Prevention Nicotine addiction - Treatment
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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

for Nicotine Addiction -- Acknowledgments -- References -- Chapter 4 -- Nicotine, Neurodegeneration, and Neuroprotection in Neuropsychiatric Disorders -- Abstract -- Introduction -- Nicotine Neuroprotection -- in Neurodegenerative Diseases -- Nicotine and Alzheimer's Disease -- Nicotine Influence on Cognitive Impairment. Nicotine, the Cholinergic System and Alzheimer's Disease -- Nicotine and Parkinson's Disease -- Nicotine and the Pathology of Parkinson's Disease -- Nicotine and other Memory Disorders -- Nicotine Neuroprotection in Neural Injury -- Nicotine Neuroprotection in Psychiatric Disorders -- Nicotine and Schizophrenia -- Nicotinic Acetylcholine Receptors in Schizophrenia -- Auditory Evoked Potential Inhibition Deficits in Schizophrenia -- Smooth Pursuit Eye Movement Deficits in Schizophrenia -- Prepulse Inhibition of Startle Response Deficits in Schizophrenia -- Neuropsychological Impairments in Schizophrenia -- Pharmacologic Interventions Targeting the Nicotinic Acetylcholine System -- Nicotine and Bipolar Mood Disorder -- Symptom Progression in Smoking Bipolar Patients -- Genetics of Bipolar Disorder and Nicotinic Acetylcholine Receptors -- Conclusion -- References -- Chapter 5 -- Stress as a Risk Factor for Transition to Heightened Nicotine Intake: Evidence from a Rat Model of Nicotine Self-Administration -- Abstract -- Introduction -- Materials and Methods -- Subjects -- Self-Administration Apparatus -- Food Training -- Surgery -- Nicotine Self-Administration -- Effect of Pharmacological Stress on Nicotine Intake -- Statistical Analyses -- Results -- Nicotine Self-Administration in the LNT and HNT Rats -- Effect of Yohimbine on Nicotine Self-Administration in the LNT Rats -- Effect of Yohimbine on Nicotine Self-Administration in the HNT Rats -- Effect of Yohimbine in Saline-Trained Rats -- Discussion -- Conclusion -- Acknowledgments -- References -- Chapter 6 -- Smoking, Nicotine and Depression: A Review -- Abstract -- Introduction -- General Aspects of Nicotine -- Pharmacology -- Metabolism -- Nicotinic Receptors -- General Characteristics of Depression -- Smoking, Nicotine and Depression -- Epidemiology. Hypothesis on the Increase in Indexes of Smoking among Patients with Major Depression -- Interaction Mechanisms of Nicotine in Depressive Disorders -- Conclusion -- References -- Chapter 7 -- New Psychological Approaches in Nicotine Addiction -- Abstract -- Introduction -- Prevention -- Cessation -- Relapse Prevention -- Conclusion -- References -- Chapter 8 -- Cognitive Consequences of Adolescent and Adult Nicotine Exposure: Utility of Animal Models -- Abstract -- Introduction -- Benefits of Rat Models for Studying Developmental Processes in Drug Addiction -- The Utility of the Rat as an Experimental Model of Adolescent Nicotine Exposure -- Hallmarks of Adolescence in the Rat -- Effects of Adult Nicotine Exposure on Cognition in Animals -- Effects of Adolescent Nicotine Exposure on Neural Development and Cognition in Animals -- Conclusion -- Acknowledgments -- References -- Chapter 9 -- Psychosocial Risk Factors for Smoking and Nicotine Dependence: Implications for Prevention and Treatment -- Abstract -- Introduction -- Purpose of Study -- Background -- Properties and Effects of Nicotine -- Mechanism of Nicotine Dependence -- Theoretical Framework -- Neurobiological Model -- Associative Learning Model -- Depression -- Smoking Expectancies -- The Personality Trait of Neuroticism -- Childhood Adversity -- Methodology of the Study -- Sample -- Measures -- Data Collection -- Results -- Conclusion -- Implications for Treatment: Assessment -- Nicotine Replacement Therapy -- Anti-Depressant Therapy -- Varenline -- Strategies to Motivate Change and Prevent Relapse -- Case Study -- Further Recommendations --

References -- Chapter 10 -- Effects Associated with the Structure of Adsorbents on the Degrees to Which Nicotine, Tar and CO are Reduced in Tobacco Smoke -- Abstract -- Introduction.
Novel Materials Efficient For Reducing Nicotine, Tar and CO Contents -- Preparation of Cigarette Samples -- Composite Filter -- Chemical Composition of the Mainstream Tobacco Smoke -- Efficiency of the Sorption Removal -- The Factor of Selectivity -- Specific Sorption Capacity of Investigated Material -- The Effects of a Hydrophilic Type Zeolite on the Degree of Reduction of Nicotine, Tar and CO in Tobacco Smoke -- The Effects Associated with the Degree of Hydrophobicity of the Zeolite on the Degree of Reduction of Tobacco Smoke Components -- The Effects Associated With the Type of Amorphous Material on the Degree of Reduction of Tobacco Smoke Components -- Conclusion -- Acknowledgment -- References -- Chapter 11 -- Kinetics of Nicotine Bonding Onto and Release from Poly (Acrylic -co-Methacrylic Acid) Hydrogel -- Abstract -- Introduction -- Poly(Acrylic Acid-Cco-Methacrylic Acid) Hydrogel Synthesis -- Nicotine Bonding and Release -- Poly(Acrylic Acid-co-methacrylic Acid) Hydrogel Synthesis -- Nicotine Bonding -- Nicotine Release -- Isothermal Kinetics of Nicotine Bonding and Release -- Models of Kinetic Nicotine Bonding to the Hydrogel -- The Kinetics Model of Nicotine Release from the Hydrogel -- Conclusion -- Acknowledgment -- References -- Index -- Blank Page.
