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Titolo	Tobacco Smoking Addiction: Epidemiology, Genetics, Mechanisms, and Treatment // by Ming D. Li
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ISBN	981-10-7530-1
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (xiii, 365 pages) : illustrations (some color)
Disciplina	616.86506
Soggetti	Human genetics Psychiatry Pharmacology Molecular biology Biochemistry Human Genetics Pharmacology/Toxicology Molecular Medicine Biochemistry, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	The Prevalence of Smoking and Its Associated Diseases.- Addiction Genetics: Basic Concepts and Techniques.- Estimation of Genetic and Environmental Contributions to Smoking Addiction -- Identified Susceptibility Loci for Nicotine Addiction Based on Genome-Wide Linkage Analyses -- Involvement of Variants in Gene Clusters CHRNA5/A3/B4 on Chromosome 15 to Smoking Behaviors and Lung Cancer.- Contribution of Variants in CHRN3/A6 Gene Cluster on Chromosome 8 to Smoking Dependence.- Genetic Contribution of Variants in GABAergic Signaling to Nicotine Dependence.- Contribution of Variants in DRD2/ANKK1 on Chromosome 11 with Smoking and Other Addictions.- Significant Contribution of Variants in Serotonin Transporter and Receptor Genes to Smoking Dependence.- Converging Findings from Linkage and Association Analyses on Susceptibility Genes for Smoking Addiction.- Contribution of Gene-Gene and Gene-Environmental Interactions to Tobacco Smoking.- Identification of

Biological Pathways Associated with Smoking Initiation/Progression, Nicotine Dependence, and Smoking Cessation.- Neuroproteomics and Its Applications in Research on Nicotine and Other Drugs of Abuse.  
- Regulatory Roles of MicroRNAs in Addictions and Other Psychiatric Diseases.- Tobacco Smoking, Food Intake, and Weight Control.  
- Nicotine Modulates Innate Immune Pathways via 7 Nicotinic Acetylcholine Receptor.- DNA Methylation Analysis Reveals a Strong Connection between Tobacco Smoking and Cancer Pathogenesis.  
- Evolutionary Relations of Genes Encoding Nicotinic Acetylcholine Receptor Subunits.- Management, Pharmacotherapies, and Precision Medicine for Smoking Cessation.- Background and Biology of and Health Concerns about Electronic Cigarettes.- Grand Challenges and Opportunities for Psychiatry, Including Nicotine Addiction Research.

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Sommario/riassunto

This book provides the most recent knowledge on almost all key aspects of the health impact of tobacco smoking. Its 21 chapters focus on both preclinical and clinical studies. The contents are broad, covering the epidemiology of tobacco smoking; genetic epidemiology; identification of susceptibility genomic regions, genes, and pathways as determined by both human and animal studies; evolutionary relations among the different nAChR subunit genes that are so important to the nicotine response; smoking-related diseases; E-cigarettes; and smoking cessation. Furthermore, each chapter includes a detailed and comprehensive list of key references. For both clinical and basic researchers, this book is a valuable resource on nicotine dependence and other addictions.

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