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CONDITIONED PLACE PREFERENCE OVERVIEW OF THE ENDOCANNABINOID SYSTEM; WITHDRAWAL FROM ALCOHOL; List of Abbreviations; BEHAVIORAL MODELS; ANIMAL MODELS: DEFINITION; BEHAVIORAL PHARMACOLOGY; Acknowledgments; Glossary; Chapter 5 - Zebrafish and Alcohol; ACUTE BEHAVIORAL EFFECTS OF ALCOHOL IN ZEBRAFISH; CHRONIC BEHAVIORAL EFFECTS OF ALCOHOL IN ZEBRAFISH; SEE ALSO; THE EFFECTS OF EMBRYONIC EXPOSURE TO LOW ALCOHOL CONCENTRATIONS; List of Abbreviations; Further Reading; Further Reading; INTRODUCTION; INTRODUCTION; LARGE-SCALE APPROACHES TO ALCOHOL STUDIES IN FLIES; List of Abbreviations; Glossary Further Reading TRANSITION FROM AMPHETAMINE USE TO DEPENDENCE; BEHAVIORAL LOCOMOTOR SENSITIZATION; TREATMENT IMPLICATIONS; List of Abbreviations; Glossary; Further Reading; Further Reading; CANNABINOID SELF-ADMINISTRATION PROCEDURES; Acknowledgment; List of Abbreviations; Chapter 9 - Animal Models of Drug Addiction: Cocaine; INTRODUCTION; Chapter 26 - Molecular and Cellular Mechanisms of Addiction; Chapter 38 - Human Neurophysiology: EEG and Quantitative EEG in Addiction Research; HISTORICAL CONSIDERATIONS; Acknowledgments; List of Abbreviations; CANNABINOIDS IN THE BRAIN AND IN THE LABORATORY INTRODUCTION INTRODUCTION; INTRODUCTION; BEHAVIORAL AND PSYCHOLOGICAL SIMILARITIES; EFFECTS OF NICOTINE IN EXPERIMENTAL ANIMALS; WHAT IS INCENTIVE SALIENCE?; CONCLUSIONS; CONSEQUENCES OF DRUG EXPOSURES DURING DEVELOPMENT; VALIDATING ENDOPHENOTYPES; SUMMARY; List of Abbreviations; Further Reading; Further Reading; INTRODUCTION; INTRODUCTION; SEE ALSO; List of Abbreviations; NEUROBIOLOGICAL BASES OF WITHIN-SYSTEM NEUROADAPTATIONS; Chapter 12 - Preclinical Animal Studies: Cannabinoids; INTRODUCTION; INTRODUCTION; BACKGROUND; INTRODUCTION; List of Abbreviations; THE NEUROBIOLOGY OF COCAINE ABUSE ANIMAL STUDIES

Sommario/riassunto

Biological Research on Addiction examines the neurobiological mechanisms of drug use and drug addiction, describing how the brain responds to addictive substances as well as how it is affected by drugs of abuse. The book's four main sections examine behavioral and molecular biology; neuroscience; genetics; and neuroimaging and neuropharmacology as they relate to the addictive process. This volume is especially effective in presenting current knowledge on the key neurobiological and genetic elements in an individual's susceptibility to drug dependence, as well as the processes
