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Neuropsychiatric disorders such as schizophrenia, mood disorders, Alzheimer's disease, epilepsy, alcoholism, substance abuse and others are some of the most debilitating illnesses worldwide characterized by the complexity of causes, and lacking the laboratory tests that may promote diagnostic and prognostic procedures. Recent advances in neuroscience, genomic, genetic, proteomic and metabolomic knowledge and technologies have opened the way to searching biomarkers and endophenotypes, which may offer powerful and exciting opportunities to understand the etiology and the underlying pathophysiological mechanisms of neuropsychiatric disorders. The challenge now is to translate these advances into meaningful diagnostic and therapeutic advances. This book offers a broad synthesis of the current knowledge about diverse topics of the biomarker and endophenotype strategies in neuropsychiatry. The book is organized into four interconnected volumes: **Neuropsychological Endophenotypes and Biomarkers** (with overview of methodological issues of the biomarker and endophenotype approaches in neuropsychiatry and some technological advances), **Neuroanatomical and Neuroimaging Endophenotypes and Biomarkers**, **Metabolic and Peripheral Biomarkers** and **Molecular Genetic and Genomic Markers**. The contributors are internationally and nationally recognized researchers and experts from 16 countries. This four-volume handbook is intended for a broad spectrum of readers including neuroscientists, psychiatrists, neurologists, endocrinologists, pharmacologists, clinical psychologists, general practitioners, geriatricians, health care providers in the field of neurology and mental health interested in trends that have crystallized in the last decade, and trends that can be expected to further evolve in the coming years. It is hoped that this book will also be a useful resource for the teaching of psychiatry, neurology, psychology and mental health.

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Biomarkers in Toxicology, Second Edition, is a timely and comprehensive reference dedicated to all aspects of biomarkers that relate to chemical exposure and their effects on biological systems. This revised and completely updated edition includes both vertebrate and non-vertebrate species models for toxicological testing and the development of biomarkers. Divided into several key sections, this reference volume contains new chapters devoted to topics in microplastics, neuroimmunotoxicity and nutraceuticals, along with a look at the latest cutting-edge technologies used to detect biomarkers. Each chapter contains several references to current literature and important resources for further reading. Given this comprehensive treatment, this book is an essential reference for anyone interested in biomarkers across the scientific and biomedical fields. Evaluates the expansive literature, providing one resource covering all aspects of toxicology biomarkers Includes completely revised chapters, along with additional chapters on the newest developments in the field Identifies and discusses the most sensitive, accurate, unique and validated biomarkers used as indicators of exposure Covers special topics and applications of biomarkers, including chapters on molecular toxicology biomarkers, biomarker analysis for nanotoxicology, development of biomarkers for drug efficacy evaluation, and much more

A few disorders have some of the same symptoms as schizophrenia including schizoaffective disorders, schizophreniform disorder, schizotypal and schizoid personality disorders, delusional disorder, and autism (schizophrenia spectrum disorders). Since the 2000 there has been significant progress in our understanding of the early presentations, assessment, suspected neuropathology, and treatment of these disorders. Recent technological breakthroughs in basic sciences hold promise for advancing our understanding of the pathophysiology of schizophrenia spectrum disorders. This collective monograph reviews recent researches regarding the origins, onset, course, and outcome of schizophrenia spectrum disorders. In particular, this book will illustrate new developments in terms of conceptual models, and research methodology, genetics and genomics, brain imaging and neurochemical studies, neurophysiology and information processing in schizophrenia spectrum disorders patients. Also will be highlighted new developments in our understanding of the childhood psychosis, prodromal and first-episode states, in treatment and rehabilitation. Thus, the purpose of this book is to provide up-to-date overview of the rapid advances made in the clinical and basic science studies supporting our understanding of the relationship between cerebral processes and clinical, cognitive and other presentations of the schizophrenia spectrum disorders. In addition, this book aims to monitor important research developments, which may be relevant to treatment, and rehabilitation of patients.

This is the first comprehensive two-volume collection on anhedonia, a disorder that played an important role in psychopathology theories at the beginning of the twentieth century. Anhedonia is a condition in which the capacity of pleasure is partially or completely lost, and it refers to both a personality trait, and a "state symptom" in various neuropsychiatric and physical disorders. It has a putative neural substrate, originating in the dopaminergic mesolimbic and mesocortical reward circuit. Over the past three decades cognitive psychology and behavioral neuroscience have expanded our understanding of anhedonia and other reward-related processes. The aim of this new two-volume collection on anhedonia is to highlight the contributions of eminent scientists in this field as well as to provide readers with comprehensive accounts of

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recent developments as perceived by the authors. This monograph is divided into five parts. Volume I contains parts one and two (Conceptual Issues and Neurobiological Advances) including 14 chapters that serve as an introduction and overview of conceptual issues. Volume II contains three parts (Anhedonia in Psychotic Disorders, Anhedonia in Mood and Personality Disorders, and Anhedonia in Neurological and Physical Disorders) including 15 chapters that provide an overview of the construct, measurement of anhedonia in schizophrenia spectrum disorders, hedonic capacity and related factors in schizophrenia and schizoaffective disorder, anhedonia as an indicator of genetic liability for schizophrenia, and as a trait marker for depression, the role of an anhedonia in trauma-related disorders, anorexia nervosa, stress-induced eating disorders, schizotypal traits and risk of suicide. This book will be of interest to a broad spectrum of readers including psychiatrists, psychologists, neurologists, neuroscientists, endocrinologists, pharmacologists, general practitioners, geriatricians, graduate students, and health care providers in the fields of mental health.

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