

1. Record Nr.	UNINA9910139564303321
Autore	Adinoff Bryon
Titolo	Neuroimaging in addiction [[electronic resource]] / Bryon Adinoff and Elliot Stein
Pubbl/distr/stampa	Chichester, West Sussex, : John Wiley & Sons, 2011
ISBN	1-283-33323-6 9786613333230 1-119-97270-1 1-119-99893-X 1-119-99846-8
Descrizione fisica	1 online resource (373 p.)
Altri autori (Persone)	SteinElliot
Disciplina	616.8 616.8047572
Soggetti	Brain - Effect of drugs on Brain - Radiography Compulsive behavior - Magnetic resonance imaging
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	Neuroimaging in Addiction; Contents; Foreword; List of Contributors; 1 Introduction; 2 An Integrated Framework for Human Neuroimaging Studies of Addiction from a Preclinical Perspective; 2.1 Introduction; 2.2 A Conceptual Framework for Understanding Drug Addiction Based on Preclinical Observations; 2.3 Neuropharmacological Considerations; 2.4 Neuropathology of Chronic Drug Abuse; 2.5 Impulsivity: An Endophenotype for Drug Addiction; 2.6 Compulsivity: Craving versus Drug-Seeking; 2.7 Summary; References 3 Structural and Functional Neuroimaging Methods: Applications to Substance Abuse and Addiction 3.1 Introduction; 3.2 MRI Based Imaging Tools and their Application to Drug Abuse Research; 3.3 Molecular Imaging with PET and SPECT; 3.4 Summary and Peek into the Future; References; 4 Functional Neuroimaging of the Acute Effects of Drugs of Abuse; 4.1 Introduction; 4.2 Fundamental Neuronal Systems Related to Abuse Liability in Humans; 4.3 Psychostimulants; 4.4 Alcohol; 4.5 Cannabis and the Cannabinoids; 4.6 Opioids; 4.7 Conclusions and

Future Directions; References; 5 Reward Processing
5.1 Introduction5.2 Neurotransmitter Systems Implicated in Reward Processing; 5.3 Neurotransmitter Systems Involved in Drug-Related Reward Processing; 5.4 Alterations in the Mesostriatal System in Addiction; 5.5 Summary and Outlook; 5.6 Acknowledgments; References; 6 A Neuroimaging Approach to the Study of Craving; 6.1 A Neuroimaging Approach to the Study of Craving; 6.2 Neural Response During Cue-Elicited Craving; 6.3 Associations between Neural and Subjective Response During Cue-Elicited Craving; 6.4 Modulators of Neural Response During Cue-Elicited Craving
6.5 Effects of Intervention on the Neural Response During Cue-Elicited Craving6.6 Summary and Integration of Findings; 6.7 Conclusions; References; 7 Impulsivity and Addiction; 7.1 Introduction; 7.2 Impulsivity as Reward versus Control; 7.3 The Neurobiology of Impulsivity; 7.4 Impulsivity and Risk for Developing a Drug Use Disorder; 7.5 Impulsivity in Current Users; 7.6 Impulsivity, Abstinence, and Relapse; 7.7 Conclusion; References; 8 Cognitive Disruptions in Drug Addiction: a Focus on the Prefrontal Cortex; 8.1 Introduction; 8.2 Attention; 8.3 Working Memory; 8.4 Decision-Making
8.5 Pre-Morbid Vulnerabilities8.6 Other Brain Regions; 8.7 Limitations Across All Studies; 8.8 Treatment Implications; 8.9 General Summary and Conclusions; 8.10 Acknowledgments; References; 9 Neural Mechanisms of Stress and Addiction; 9.1 Stress and Addiction; 9.2 Neural Circuits of Stress Regulation; 9.3 Dysfunction in the Neural Circuits Underlying Stress and Addiction; 9.4 Interplay of Gene, Stress, and Drug Intake; 9.5 Acknowledgments; References; 10 Anatomical and Neurochemical Evidence of Neurotoxic Changes in Psychostimulant Abuse and Dependence; 10.1 Introduction
10.2 Characteristics of Psychostimulants

Sommario/riassunto

Neuroimaging in Addiction presents an up-to-date, comprehensive review of the functional and structural imaging human studies that have greatly advanced our understanding of this complex disorder. Approaching addiction from a conceptual rather than a substance-specific perspective, this book integrates broad neuropsychological constructs that consider addiction as a neuroplastic process with genetic, developmental, and substance-induced contributions. The internationally recognized contributors to this volume are leaders in clinical imaging with expertise that spans the addiction spec
