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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
