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FUTURE DIRECTIONS IN RESEARCH; 6 THE IMPLICATIONS OF DEFINING GENETIC INFLUENCES IN DRUG USE FOR THE INDIVIDUAL AND SOCIETY; 7 THE BRAIN SCIENCE, ADDICTION AND DRUGS PROJECT QUESTIONS 8 CONCLUSIONSChapter 5. Experimental Psychology and Research into Brain Science, Addiction and Drugs; 1 EXECUTIVE SUMMARY; 2 INTRODUCTION; 3 SCIENTIFIC BASIS OF DRUG ADDICTION; 4 CURRENT PSYCHOACTIVE SUBSTANCES - EFFECTS AND HARMS; 5 INTERVENTIONS AND MANAGEMENT; 6 VISIONS FOR THE FUTURE - FUTURE CAPABILITIES AND APPLICATIONS; 7 CONCLUSIONS; Chapter 6. Pharmacology and Treatments; 1 EXECUTIVE SUMMARY; 2 DEFINITIONS AND SCOPE OF REVIEW; 3 BACKGROUND; 4 CURRENT PSYCHOACTIVE DRUGS; 5 DRUG TREATMENTS FOR SUBSTANCE USE DISORDERS; 6 FUTURE PSYCHOACTIVE SUBSTANCES; 7 FUTURE THERAPEUTICS 8 CONTEXT OF FUTURE TREATMENTS9 PROSPECTS; 10 APPENDIX: ACRONYMS; Chapter 7. Psychological Treatments of Substance Misuse and Dependence; 1 EXECUTIVE SUMMARY; 2 INTRODUCTION; 3 WHERE ARE WE NOW? THE CURRENT EVIDENCE BASE ON PSYCHOLOGICAL TREATMENTS; 4 PSYCHOLOGICAL TREATMENTS OF SUBSTANCE MISUSE AND DEPENDENCE: THE FUTURE?; 5 WHAT WILL BE THE DRUGS OF THE FUTURE?; 6 PSYCHOSOCIAL TREATMENTS OF THE FUTURE; 7 PREVENTION STRATEGIES IN THE FUTURE?; 8 CONCLUSIONS; Chapter 8. Cognition Enhancers; 1 EXECUTIVE SUMMARY; 2 DEFINITIONS AND SCOPE OF REVIEW; 3 BACKGROUND; 4 BASIS OF LEARNING AND MEMORY 5 CURRENT COGNITION ENHANCERS6 COGNITION ENHANCERS IN DEVELOPMENT; 7 FUTURE COGNITION ENHANCERS; 8 IMPLICATIONS; 9 CONCLUSIONS; Chapter 9. Neuroimaging; 1 EXECUTIVE SUMMARY; 2 FUNCTIONAL NEUROIMAGING IN THE STUDY OF DRUG ADDICTION: DEFINING PHARMACOLOGY AND CRAVING; 3 FUNCTIONAL NEUROIMAGING IN THE STUDY OF DRUG ADDICTION; 4 FUNCTIONAL NEUROIMAGING IN PRECLINICAL MODELS OF ADDICTION; 5 MOLECULAR IMAGING AND THE ROLE OF PET; 6 ADVANCES IN MRI/S TECHNOLOGY; 7 TRANSCRANIAL MAGNETIC STIMULATION; 8 FURTHER DEVELOPMENTS; Chapter 10. Drug Testing; 1 EXECUTIVE SUMMARY; 2 INTRODUCTION; 3 TEST MATRICES 4 ANALYTICAL METHODS

Sommario/riassunto

This book presents 13 reviews collected to present the new advances in all areas of addiction research, including knowledge gained from mapping the human genome, the improved understanding of brain pathways and functions that are stimulated by addictive drugs, experimental and clinical psychology approaches to addiction and treatment, as well as both ethical considerations and social policy. The book also includes chapters on the history of addictive substances and some personal narratives of addiction. Introduced by Sir David King, Science Advisory to the UK Government and head of the Office
