



Neuronal Dysfunction Induced by Drugs of Abuse

By Teresa Cunha-Oliveira

VDM Verlag Jul 2009, 2009. Taschenbuch. Book Condition: Neu. 220x150x12 mm. This item is printed on demand - Print on Demand Neuware - Substance abuse and addiction are the most costly of all neuropsychiatric disorders. In the last decades, much progress has been achieved in the understanding the effects of the drugs of abuse on the brain. However, efficient treatments that prevent relapse have not been developed. Understanding the mechanisms that underlie brain dysfunction observed in these individuals may contribute to improve the treatment of drug addiction, which may have serious social and economical consequences. This book presents a review of the literature on this subject, as well as studies on the neurotoxic effects of the drugs of abuse amphetamine, cocaine and heroin, exploring their cellular and molecular mechanisms of action, with a focus on oxidative stress and apoptosis. The role of mitochondria and ionotropic glutamate receptors in the neuronal dysfunction induced by these drugs is also explored. This book should be useful to anyone interested in the molecular mechanisms of drug addiction. 204 pp. Englisch.



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