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Molecular Mechanisms and Treatments of Dependence and Neurotoxicity of Amphetamine-Type Stimulants

Guest Editor:

Prof. Dr. Anna Moszczynska

Department of Pharmaceutical Sciences/College of Pharmacy and Health Sciences, Wayne State University, Detroit, MI 48201, USA

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Message from the Guest Editor

stimulants (ATSs) Amphetamine-type such as methamphetamine and 3.4methylenedioxymethamphetamine (MDMA, Ecstasy) are highly addictive drugs with neurotoxic properties. In recent vears there has been a pronounced increase in the production and use of ATSs worldwide. Preclinical studies have demonstrated that, in addition to having the potential for abuse, ATS drugs have a potential to elicit neurotoxic effects, particularly at high doses. There are no FDAapproved pharmacotherapies to treat ATS dependence, and there are no appropriate therapeutic strategies to the neurological and neuropsychological problems associated with ATS abuse. This Special Issue will review current knowledge on molecular mechanisms the dependence and neurotoxicity of underlying methamphetamine, MDMA, and other ATSs, as well as developing strategies to treat ATS dependence and resultant neurotoxicity. The emphasis will be placed on methamphetamine, as its abuse in the USA has been increasing. together with the deaths from methamphetamine overdose. Consequently, the effective pharmacotherapy development of methamphetamine dependence and the neurotoxic effects of this drug is a high priority.













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Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

Message from the Editor-in-Chief

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