Thematic Section: Biochemical Research.

Review

Subsection: Chemistry of Xenobiotics. Registration Code of Publication: 13-33-3-1 Publication is available for discussion in the framework of the on-line Internet conference "Butlerov readings". http://butlerov.com/readings/ Contributed: March 1, 2013.

Thematic course: Biodegradation as a method for waste processing. Part 1. **Biodegradation of xenobiotics**

© Anton Z. Mindubayev and Dmitry G. Yakhvarov

Institution of RAS, A.E. Arbuzov Institute of Organic and Physical Chemistry. Arbuzov St., 8. Kazan, 420088. Tatarstan Republic. Russia. E-mail: mindubaev@iopc.ru State Budgetary-Funded Institution of Science A.E. Arbuzov Institute of Organic and Physical Chemistry of Kazan Scientific Center of Russian Academy of Sciences

*Supervising author; ⁺Corresponding author

Keywords: biodegradation, detoxication, industrial toxic waste.

Abstract

One of the most significant probems of modern civilization is waste processing. Among the ways of its solving is biodegradation method, which is the most natural and environmentally friendly way for the destruction of waste of the cities, industry and agriculture. This review is aimed at the elucidation of biodegradation possibilities, its strength and weakness and the reasons of biodegradation insufficient application at present. The review contains the describtion of a number of specific examples of biodegradation of various classes of substances, many of biodegradation methods have already become customary.