

Biodegradation of

Nitroaromatic Compounds and Explosives



Edited by

Jim C. Spain
Joseph B. Hughes
Hans-Joachim Knackmuss

Biodegradation Of Nitroaromatic Compounds

Danny Reible, Katerina Demnerova



Biodegradation Of Nitroaromatic Compounds:

Biodegradation of Nitroaromatic Compounds Jim C. Spain, 2013-11-21 During the past five years increased awareness of environmental contamination by nitroaromatic compounds has led to a dramatic increase in research on their biodegradation. The resulting discoveries have markedly extended our understanding of degradation mechanisms and pathways in bacteria and fungi. Furthermore, this new basic knowledge promises the development of field applications of biodegradation systems for nitroaromatic compounds. In May of 1994 an International Symposium on the Biodegradation of Nitroaromatic Compounds was held in Las Vegas, Nevada. This symposium brought together the scientists at the frontiers of research into the biodegradation of nitroaromatic compounds. The invited speakers were asked to review their area of expertise and write a critical comprehensive synthesis of their work and related work by others. This book is the result of their efforts. The emphasis of the reviews is on basic research in biodegradation and biotransformation. Therefore, the reactions of nitroaromatic compounds in plants, animals, bacteria, fungi, soil, and even nonbiological systems are considered. The goal of the work is to provide the reader with an appreciation of the tremendous range of possibilities for metabolism of aromatic nitro compounds and the experimental approaches used to understand them. This volume should be of interest to biochemists, microbiologists, engineers, toxicologists, and anyone interested in the behavior of synthetic chemicals in the environment or in living systems. Furthermore, a variety of commercial applications can be envisioned for some of the reactions described here.

Biodegradation of Nitroaromatic Compounds and Explosives Jim C. Spain, Joseph B. Hughes, Hans-Joachim Knackmuss, 2000-06-14 Filled with practical applications and research, *Biodegradation of Nitroaromatic Compounds and Explosives* presents an international perspective on environmental contamination from explosives. It covers biodegradation strategies for DNT and a wide variety of other nitroaromatic compounds of environmental significance and makes the information accessible.

In Situ Biodegradation of Nitroaromatic Compounds in Soil Don L. Crawford, 1994 *In Situ Biodegradation of Nitroaromatic Compounds in Soil*, 1994 Nitroaromatic compounds, particularly nitrotoluenes used as explosives and nitroaromatic herbicides such as dinoseb, are serious environmental contaminants at industrial locations nationwide. Research performed during the 1970s generally indicated that complete biomineralization of 2,4,6-trinitrotoluene (TNT) and similar highly nitrated compounds did not occur. Biological reductions of R-NO_2 , R-NHOH , and R-NH_2 and polymerization reactions appeared to occur, but actual degradation of aromatic nuclei was not observed. However, this work involved studies of aerobic systems such as activated sludge and thermophilic composts and pure culture studies of aerobic fungi and bacteria such as pseudomonads. Pure cultures of some anaerobic bacteria such as *Veillonella alcalescens* were examined with similar results. Boopathy and Kulpa recently isolated a *Desulfovibrio* that used TNT as a sole source of nitrogen, producing toluene as an end product. A *Pseudomonas* that produced dinitrotoluene, mononitrotoluene, and toluene from TNT, perhaps by hydride additions, was isolated by Duque et al. These are still

incomplete degradations of the parent molecule Since the Desulfovibrio strain required obligately anaerobic conditions

Augmentation to in Situ Biodegradation of Nitroaromatic Compounds in Soil, 1994 We have determined that an organism able to degrade both RDX and TNT in a pure culture is a strain of Clostridium bifermentans The consortium from which this organism is derived also degrades these compounds and we suspect that C bifermentans is also the responsible organism within that consortium The bioconversion of RDX and TNT occurs under anaerobic conditions both in the consortium and in pure culture without the need of an added reductant The presence of co metabolites speeded these biotransformations

Innovative Approaches to the On-Site Assessment and Remediation of Contaminated Sites Danny Reible, Katerina Demnerova, 2012-12-06 2 DANNY D REIBLEI AND KATERINA DEMNEROVA 1 Hazardous Substance Research Center South and Southwest Louisiana State University Baton Rouge LA 70803 2 Department of Biochemistry and Microbiology Institute of Chemical Technology Prague Czech Republic On May 24 2001 a total of 102 students and lecturers participated in an Advanced Study Institute ASI sponsored by the North Atlantic Treaty Organization NATO under our direction The Institute was focused on in situ and onsite management of contaminated sites The objective of the Institute was to balance state of the art science with techniques for field application of a variety of technologies for in situ assessment and remediation of contaminated sites Many of the lecturers were drawn from the ranks of the Hazardous Substance Research Centers multi university consortia that have been funded by the US Environmental Protection Agency to conduct research and technology transfer designed to promote risk based management and control of hazardous substances for the nation The Centers have made special contributions to the areas of in situ and onsite assessment and remediation of contaminated sites Such approaches have the potential for being significantly less expensive than other assessment and remediation approaches while maintaining accuracy and effectiveness Cost effective remedial and management approaches that are also effective in minimizing exposure and risk to human health and the environment are a critical need throughout the world but particularly in Eastern Europe and the former Soviet Union where resources that can be devoted to environmental cleanup are especially limited

Advances in Applied Microbiology Allen I. Laskin, Geoffrey M. Gadd, 2001-10-08 Advances in Applied Microbiology offers intensive reviews of the latest techniques and discoveries in this rapidly moving field The editors are recognized experts and the format is comprehensive and instructive

Environment & Sustainable Development 2025 Volume-V Ms. Sayed Ajaz Fatima, Dr. Th. Manimala Devi, Dr. Barsha Biswal, 2025-10-20 Natural and Enhanced Remediation Systems Suthan S. Suthersan, 2001-08-06 Building on the success of bioremediation and phytoremediation technologies Natural and Enhanced Remediation Systems explores remediation techniques that use the beneficial effects provided by Mother Nature Written by a leader in the industry the book provides state of the art information on natural and enhanced remediation techniques such as mo Pseudomonas: Biosynthesis of macromolecules and molecular metabolism

Juan-Luis Ramos, 2004 **BIOTECHNOLOGY - Volume II** Horst W. Doelle, J. Stefan Rokem, Marin Berovic, 2009-11-16 This

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ethyl hexyl phthalate pharmaceutical residues and alkylpyridines Also covered is the variation of nutrient supplies for optimizing hydrocarbon biodegradation

Bioremediation of Energetics, Phenolics, and Polycyclic Aromatic Hydrocarbons Victor Magar, 2001 The symposium included 600 presentations in 50 sessions on bioremediation and supporting technologies used for a wide range of contaminants already in or poised to invade soil groundwater and sediment Three hundred and fifty two papers were selected and organized into ten volumes Volume three presents bench and pilot scale projects focusing on the use of biological treatment approaches for remediating problem compounds such as RDX HMX TNT DDT PCBs PAHs and chlorophenols Articles average eight pages and contain abstracts and references Annotation copyrighted by Book News Inc Portland OR

Characterization of Xenobiotic Reductases from Two Pseudomonas Species David S. Blehert, 1999

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