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## **Microbial Degradation Of Xenobiotics Environmental**

These compounds enter the environment as components of pesticides, fertilizers, and herbicides. Many toxic xenobiotics are progressively more concentrated in each link of a food chain, a process called bio-magnification (Fig. 9.3). Microbial degradation of xenobiotics has been thoroughly studied.

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## **Microbiological Degradation of Xenobiotics**

[Microbial degradation of xenobiotics in the environment]. [Article in Croatian]

Rozgaj R(1). Author information: (1)Institut za medicinska istraživanja i medicinu rada, Zagreb, Hrvatska.

Biodegradation of naturally occurring organic compounds follows their synthesis.

### **[Microbial degradation of xenobiotics in the environment].**

breakdown of pesticides and other xenobiotics in the environment. In recent years, however, we have encountered a number of problems related to the microbial degradation of pesticides. Some examples showing their specific characters follow. In certain 'problem' soils, the efficiency of the pesticides

## **MICROBIAL DEGRADATION OF XENOBIOTICS**

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involved in the degradation of xenobiotics. Sometimes these microbial transformation processes are fortuitous, a phenomenon that is not uncommon in microbiology. On the other hand, microorganisms may use xenobiotic compounds as a source of energy, carbon, nitrogen, or sulfur. Degradation of many xenobiotic chemicals requires microbial communities.

## **Biodegradation of Xenobiotics - EOLSS**

Through microbial metabolism xenobiotics degraded from toxic to non-toxic compounds which are mainly environmental accepted form. Enzymes play important role in xenobiotics degradation are Laccases, dehydrogenases, oxidoreductases etc. Degradation of xenobiotics through microbial system is a cost effective way to reduce such type of problem.

## **Removal of Xenobiotics from environment using microbial ...**

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Microbial degradation of nitrogenous xenobiotics of environmental concern V. Andreoni a, G. BaggP and S. Bernasconi b aDipartimento di Scienze e Tecnologie Alimentari e Microbiologiche, Universit~ degli Studi di Milano, 20133 Milano -Via G. Celoria 2, Italy bDipartimento di Chimica Organica e Industriale, Universit~ degli Studi di Milano, 20133 Milano -Via G. Celoria 2, Italy INTRODUCTION ...

## **Microbial degradation of nitrogenous xenobiotics of ...**

It is thus one of the rare books that provide a large image of the microbial metabolism potential for xenobiotic degradation. ... the book is of great interest, useful, and would be core reading for researchers and students exploring the microbial degradation capacities." (Robert Duran, Environmental Science and Pollution Research, Vol. 39, 2012)

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## **Removal of Xenobiotics from environment using microbial ...**

Microorganisms play an important role in degradation of xenobiotics, and maintaining of steady state concentrations of chemicals in the environment. The complete degradation of a pesticide molecule to its inorganic components that can be eventually used in an oxidative cycle removes its potential toxicity from the environment.

## **Bioremediation of Xenobiotics - Environmental Biotechnology**

Xenobiotics are man-made chemical compounds that are very difficult to degrade. These compounds are made by synthetic organic chemicals and are

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stranger to the biosphere. They accumulate in the environment and cause harmful effects on the living system. Xenobiotics include chemically synthesized compounds such as pesticides, polyethylene, polystyrene & PVC.

## **Biological Degradation of Xenobiotics - Biotech Articles**

Xenobiotics, Degradation, Bacteria, Fungi. Paecilomyces, Thermomyces, Geotrichum, ... microbial catabolic enzymes. Type, number and position of bonds and substituent affect the xenobiotic character. ... Origin of xenobiotics in the environment

## **ORIGINAL RESEARCH ARTICLE BIODEGRADATION OF XENOBIOTICS- A ...**

Key words: Xenobiotics, degradation, bioremediation, co-metabolism, catabolic genes, plasmid, transposon, horizontal gene transfer. INTRODUCTION Both natural and anthropogenic

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activities result in accumulation of wide ranges of toxic xenobiotic compounds in the environment, and thus cause a global concern (Gienfrada and Rao, 2008).

## **Microbial transformation of xenobiotics for environmental ...**

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The microbial degradation of xenobiotics is seen as a cost effective method of removing these pollutants from the environment by a process now known as bioremediation. Microbial treatment of industrial effluents is also possible.



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## **Microbial metabolism of xenobiotics: Fundamental and ...**

The degradation of a wide spectrum of organic pollutants and wastes discharged into the environment by anthropogenic activities is an emerging need today to promote sustainable development of our society with low environmental impact. Microbial processes play a major role in the removal of recalcitrant compounds taking advantage of the ...

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## **Microbial Degradation of Xenobiotics | Shree Nath Singh ...**

Some xenobiotics substances are resistant to degradation. Xenobiotics such as polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and trichloroethylene (TCE) accumulate in the environment due to their recalcitrant properties and have become an environmental concern due to their toxicity and accumulation.

### **Xenobiotic - Wikipedia**

Microbial degradation of aromatic compounds Microbial degradation is defined as the breakdown of a compound such as aromatics/xenobiotics into simple metabolic intermediates with the use of microbes. The microorganism utilizes them and their subsequent metabolites as a sole source of carbon/nitrogen, thus removing them completely.

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## **Microbial degradation of xenobiotics like aromatic ...**

Xenobiotics compounds are carcinogenic, mutagenic, causing teratogenic effect and persist over a long period of time in the environment. Therefore there is an urgent need for the detoxification of these compounds. Biodegradation is a technique that employs natural biological processes to completely degrade toxic contaminants from the environment.

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