

Special Topic Issue: Journal of Molecular Microbiology and Biotechnology 2008, Vol. 15, No. 2-3 All human activities on earth produce some kind of byproduct or pollutant, and over the last decades an increasing number of novel industrial compounds called xenobiotics has accumulated. The development of new technologies from modern microbiology, enzymology and molecular biology has enabled engineers and scientists to tackle some of the more recent environmental problems such as the detoxification of hazardous chemicals. The aim of this special issue is to present an overview of different biological and biochemical transformations of pollutant compounds including xenobiotic chemicals. Biotransformations of aromatic compounds, polychlorinated chemicals, pesticides, dioxins and fuel additives are analyzed and discussed, and critical reviews at three different levels - bioremediation processes, microbial and plant metabolic pathways, and enzymatic transformations - are presented. A reliable know-how in environmental biotechnology as provided by this collection of papers will be helpful in achieving one of society's most important goals today: to reestablish Nature's equilibrium.

How Can Tropical And Sub-tropical Australia Be Effectively Developed?, The Hispanic-American Almanac: A Reference Work on Hispanics in the United States, Point Blank: An Alex Rider Adventure (Alex Rider Adventures), Its About Time 4 CD set: Its About Time; The Problem with Presumption; Triple A Rated Decision Making; Its About Timing, 13 Quick and Easy Cooking Recipes Anyone Can Make, Forgotten Memories: A Saving Angels Novel,

This paper introduces the successor system, enviPath (The Environmental Contaminant Biotransformation Pathway Resource), which is a **Abstract - INTRODUCTION - DATA - PREDICTION ENGINE**. Biotransformations are chemical reactions that are catalyzed by microorganisms in terms of growing or resting cells or that are catalyzed by isolated enzymes.

Biotransformation is a process by which organic compounds are transformed from one form to another to reduce the persistence and toxicity of the chemical compounds. This process is aided by major range of microorganisms and their products such as bacteria, fungi and enzymes. If their interest is in degrading environmental pollutants, they are said to study using microbial metabolism is said to be conducting a biotransformation or to be .

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