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Bioremediation

And

# **Bioremediation And Biodegradation Of Pesticide From**

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biodegradation of

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## **Bioremediation And Biodegradation Of Pesticide From**

Bioremediation is a process used to treat contaminated media, including water, soil and subsurface material, by altering environmental conditions to stimulate growth of microorganisms and degrade the target pollutants. Cases where bioremediation

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is commonly seen is oil spills, soils contaminated with acidic mining drainage, underground pipe leaks, and crime scene cleanups.

## **Bioremediation - Wikipedia**

Biodegradation is the biologically catalyzed modification of an organic chemical's structure. However, this modification can be through different

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And  
metabolic pathways  
and does not  
necessarily mean a  
reduction in toxicity.

Mineralization, one  
type of biodegradation,  
is defined as the  
conversion of an  
organic substance to  
its inorganic  
constituents, rendering  
the original compound  
harmless.

**Bioremediation -  
microbewiki**

BIOREMEDIATION

*Page 6/29*

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Bioremediation refers to the process of using microorganisms to remove the environmental pollutants or prevent pollution. The removal of organic wastes by microbes for environmental clean-up is the essence of bioremediation. The other names used for bioremediation are biotreatment, bioreclamation and biorestitution.

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## **Bioremediation -** **SlideShare**

Bioremediation is a term that refers to a number of remediation technologies for treatment of both soil and groundwater using microorganisms (USEPA, 2012).

Bioremediation is typically used to treat sites contaminated with organic substances (USEPA, 2001a), but it can also



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be used to immobilize inorganic contaminants such as heavy metals, although this is a developing area (Sharma & Reddy, 2004).

## **Bioremediation - Geoengineer.org**

Bioremediation technology is principally based on biodegradation. It refer to complete removal of organic toxic pollutants in to harmless or

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And  
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naturally occurring  
compounds like carbon  
dioxide, water,  
inorganic compounds  
which are safe for  
human, animal, plant  
and aquatic life [18].

## **The Role of Microorganisms in Bioremediation- A Review**

Heavy metal  
bioremediation in the  
form of metallic  
nanoparticles with the  
help of bacteria and

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the use of genetically modified microorganisms as a part of the bioremediation process have also been reported. 99-101.

Intracellular sequestration is the concentration of metal ions within the microbial cells.

## **Bioremediation Options for Heavy Metal Pollution**

Bioremediation has

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technical and cost advantages, although it can often take more time to carry out than traditional methods. Bioremediation can be tailored to the needs of the polluted site in question and the specific microbes needed to break down the pollutant are encouraged by selecting the limiting factor needed to promote their growth.

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**Bioremediation: The  
pollution solution? -  
Microbiology Society**

Pesticide use raises a number of environmental concerns. Over 98% of sprayed insecticides and 95% of herbicides reach a destination other than their target species, including non-target species, air, water and soil. Pesticide drift occurs when pesticides suspended in the air as

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particles are carried by  
wind to other areas,  
potentially  
contaminating them.

## **Pesticide - Wikipedia**

Biodegradation of  
organic chemicals  
emitted to the  
environment is carried  
out by mixed microbial  
communities growing  
on multiple natural and  
xenobiotic substrates  
at low concentrations.  
This study aims to (1)  
perform simulation

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And  
type biodegradation  
tests at a wide range of  
mixture  
concentrations, (2)  
determine the  
concentration effect on  
the biodegradation  
kinetics of individual  
chemicals, and ...

**Biodegradation  
Kinetics of  
Fragrances,  
Plasticizers, UV ...**

The challenges of  
polymer  
biodegradation

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pathway studies were stated by Kawai (2010): (i) polymers do not have a specified molecular weight and the identification of their metabolic products is difficult; (ii) their biodegradation rate is very slow and microorganisms rarely prefer them as the sole C source (Dvorak et al., 2017).

**Can polymer-degrading**



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And  
**microorganisms  
solve the bottleneck**

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Journal of  
Environmental Health  
Science & Engineering  
presents timely  
research on all aspects  
of environmental  
health science,  
engineering and  
management..  
Including Water  
pollution and  
treatment, Wastewater  
treatment and reuse,  
Air control, Soil  
*Page 17/29*

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And  
remediation, Noise and  
radiation control,  
Biodegradation Of  
Environmental  
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biotechnology and  
nanotechnology, Food  
safety and hygiene.

**Journal of  
Environmental  
Health Science and  
Engineering**

Furthermore, the  
diversity and relative  
abundance of AMG  
significantly increased  
along with the severity  
of pesticide

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And  
contamination, and  
several biodegradation  
genes were identified  
Pesticide From  
...

## **Organochlorine contamination enriches virus- encoded ...**

1. Introduction. The exponential growth of the human population has created a great demand for a continuous supply of quality food, a major challenge for the

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And  
agriculture sector. []  
The use of pesticides  
to maximize yield is an  
inevitable agronomic  
practice, however, it is  
associated with  
potential downfalls, in  
particular, exposure of  
pesticide residues to  
humans and the  
environment. []

## **Nanoporous materials for pesticide formulation and ...**

Here we studied

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whether bacterial (dsDNA) virus encoded AMGs are enriched in organochlorine pesticide (OCP) contaminated soil in China and if viral AMGs include genes linked to OCP biodegradation.

## **(PDF) Effects of Pesticides on Environment**

Shikimic acid pathway  
1. Commonly known as its anionic form shikimate, is a

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cyclohexene, a cyclitol  
and a  
cyclohexanecarboxylic  
acid. It is an important  
biochemical metabolite  
in plants and  
microorganisms. Its  
name comes from the  
Japanese flower shikimi  
the Japanese star  
anise, *Illicium*  
*anisatum*), from which  
it was first isolated in  
1885 by Johan Fredrik  
Eykmán. The  
elucidation of its ...

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**Shikimic acid  
pathway -  
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Un pesticide est une substance utilisée pour lutter contre des organismes considérés comme nuisibles. C'est un terme générique qui rassemble les insecticides, les fongicides, les herbicides et les parasitocides conçus pour avoir une action biocide. Les pesticides s'attaquent

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And  
respectivement aux  
insectes ravageurs,  
aux champignons, aux  
« adventices » et aux  
vers parasites.

## **Pesticide — Wikipédia**

Pal R, Tah J.  
Biodegradation and  
bioremediation of  
pesticides in Soil: Its  
objectives,  
classification of  
pesticides, factors and  
recent developments.  
World Journal of



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Science and  
Technology  
2012;2:36-41. 159.  
Palmer WA, Heard TA,  
Sheppard AW.

**Pesticides:  
Environmental  
Impacts and  
Management ...**

For instance, the pesticide fenamiphos degraded in two United Kingdom soils with high pH ( $>7.7$ ) and two Australian soils with pH ranging from pH 6.7 to

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6.8. The biodegradation process rather slowed down in three acidic United Kingdom soils (pH 4.7 to 6.7) in 90 days after inoculation .

## **The Role of Soil pH in Plant Nutrition and Soil ... - Hindawi**

Slow microbial degradation of organic trace chemicals (“micropollutants”) has been attributed to either downregulation

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of enzymatic turnover or rate-limiting substrate supply at low concentrations. In previous biodegradation studies, a drastic decrease in isotope fractionation of atrazine revealed a transition from rate-limiting enzyme turnover to membrane permeation as a bottleneck when ...

**Linking Increased Isotope**

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**Fractionation at Low**

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Pesticide From

Professor Ravi Naidu is a global leader in contamination studies, studying agricultural and industrial impacts on the environment.

His research has led to the implementation of policy directives for governments and new technology to manage and remediate polluted groundwater and soil, both in Australia and abroad.

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