

Web alert

Microbial bioremediation products

An annotated selection of World Wide Websites relevant to the topics in *Microbial Biotechnology*

An annotated selection of world wide websites relevant to the topics in environmental microbiology

Evaluation of bioremediation products

<http://oil-clean.net/lib/images/sim.pdf>

This is a peer-reviewed journal article discussing the efficacy of ten bioremediation products in the cleanup of oil that had been spilled along the Alaska coast.

Bioremediation effectiveness

http://ipec.utulsa.edu/Conf2002/prince_clark_lee_109.pdf

This paper describes the effectiveness of bioremediation for treating oil spilled in Alaska by the Exxon-Valdez tanker.

DMOZ: Microbial remediation services

http://www.dmoz.org/Science/Environment/Hazardous_Materials/Remediation_Technology/Biological_Remediation/Products_and_Services/

This site provides a large list of bioremediation products and services with links to the original websites describing the materials.

Bioremediation: ASM library

<http://www.microbelibrary.org/library/resources/2776-bioremediation-and-treatment-of-industrial-waste>

This site put up by the American Society for Microbiology provides a good summary of the principles and practices of bioremediation.

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doi:10.1111/1751-7915.12074

Bioremediation: USGS

<http://water.usgs.gov/wid/html/bioremed.html>

This site is dated but it contains specific examples of sites treated by bioremediation with links to further information.

Microbes and their biodegradation pathways

<http://umbbd.ethz.ch/servlets/pageservlet?ptype=allmicros>

This list is provided by the Biocatalysis/Biodegradation Database and has links for each organism to its known biodegradation pathways.

CandidatusAccumulibacterphosphatis

http://microbewiki.kenyon.edu/index.php/Candidatus_Accumulibacter_Phosphatis

CandidatusAccumulibacterphosphatis removes large amounts of phosphate from waters and stores it as polyphosphate; as such this microbe is useful in phosphate bioremediation and sequestration.

*CandidatusAccumulibacterphosphatis*genome project

<http://www.ncbi.nlm.nih.gov/genomeprj/29435>

This webpage contains the genome sequence data for a phosphate-removing microbe used in phosphate remediation and sequestration.

Bioremediation in the field search system: EPA

<http://www.epa.gov/ORD/dbases/bfss.html>

This site provides information on waste sites at which bioremediation is being used or considered to be used.

Hawaii Bioremediation Database

<http://www.hawaii.edu/abrp/dbase.html>

This database defines some general terms and offers a brief list of bioremediation services provided within Hawaii.

Frack water bioremediation

<http://futureenergy.ultralightstartups.com/campaign/detail/853>

This site contains a description of a bioremediation technology for treating waters derived from unconventional oil and gas extraction, also known as hydraulic fracturing.

Bioremediation of hydraulic fracturing wastewaters

<http://www.elsevierblogs.com/currentcomments/?p=814>

This site contains an article that makes the case for using bioremediation as a tool for dealing with waters derived from hydraulic fracturing operations.

Hydrocarbon treatment products: EPA page

<http://www.epa.gov/osweroe1/content/ncp/products/bioworld.htm>

This is an example of a technical product bulletin for a bioremediation product posted by the U.S. Environmental Protection Agency.

Regenesis products

<http://www.regenesis.com/contaminated-site-remediation-products/default.aspx>

Regenesis' products for bioremediation generally revolve around the concept of reagent biostimulation to enhance the biodegradative activity of intrinsic microorganisms.

JRW Bioremediation LLC

<http://www.jrwbioremediation.com>

The product that is used by JRW Bioremediation is often determined by the conditions at the site and the decision of what substrate to add to support the appropriate bioremediation process.

Bioremediation: Microbe Wiki

<http://microbewiki.kenyon.edu/index.php/Bioremediation>

This page provides a general treatment of bioremediation and is found on the Microbe Wiki site.

Bioremediation: When does it work?

http://www.nap.edu/openbook.php?record_id=2131&page=16

This web book put out by the U.S. National Academy of Sciences is a general treatise on bioremediation.

Molecular techniques in wastewater

<http://maciej.bioinfo.pl/pmid:16635533>

This website provides describes microbial communities and methods of study that are involved in bioremediation to treat wastewater streams.

United-Tech bioremediation

<http://www.united-tech.com/industries/industries/industries/bioremediation.html>

This site describes the use of a microbial product to treat waste hydrocarbons from the oil and gas industries.

CBI remediation

<http://www.cbi.com/markets/environmental/remediation-restoration>

CBI is a large company that does many types of remediation and environmental restoration, including bioremediation.

Haliburton bioremediation services

http://www.halliburton.com/public/bar/contents/Data_Sheets/web/Sales_Data_Sheets/SDS-043.pdf

This subsidiary of Haliburton deals with the microbial remediation of hydrocarbons derived from oil and gas drilling.

Microbes cleaning up Deepwater Horizon spill

<http://www.scientificamerican.com/article.cfm?id=how-microbes-clean-up-oil-spills>

This article describes bioremediation, largely in the context of the Deepwater Horizon spill and the ability of microbes to handle oil and derivative wastes.

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