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Organohalide-Respiring Bacteria.

Illustrates the microbial processes involved, including genetic, biochemical, ecological and biotechnological aspects.

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3 to 5 business days. This book summarizes the current state of knowledge concerning bacteria that use halogenated organic compounds as respiratory electron acceptors.

Organohalide-Respiring Bacteria | Lorenz Adrian | Springer

The discovery of organohalide-respiring

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bacteria has expanded the range of electron acceptors used for energy conservation, and serves as a prime example of how scientific discoveries are enabling innovative engineering solutions that have transformed remediation practice.

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Adrian, Lorenz, Löffler ...

Halorespiration or dehalorespiration or organohalide respiration is the use of halogenated compounds as terminal electron acceptors in anaerobic respiration. Halorespiration can play a part in microbial biodegradation. The most common substrates are chlorinated aliphatics, chlorinated phenols and

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chloroform. Dehalorespiring bacteria are highly diverse. This trait is found in some proteobacteria, chloroflexi, low G+C gram positive Clostridia. and ultramicrobacteria.

Halorespiration - Wikipedia

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Bifunctional Reductive Dehalogenases to Dechlorinate Polychlorinated Biphenyls and Tetrachloroethene.

Organohalide-Respiring Bacteria in Polluted Urban Rivers ...

Organohalide-respiring bacteria can utilize several sets of functional enzymes to couple halogen removal with

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electron transfer from H₂ or organic matter (e.g., formate and lactate) to organohalides for cell growth (Fincker and Spormann, 2017 ; Atashgahi et al., 2018).

Frontiers | Editorial: Organohalide Respiration: New ...

The discovery of organohalide-respiring

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bacteria has expanded the range of electron acceptors used for energy conservation, and serves as a prime example of how scientific discoveries are enabling innovative engineering solutions that have transformed remediation practice.

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SpringerLink

Although organohalide respiring bacteria (OHRB) contribute to the elimination of anthropogenic organohalides in natural anaerobic environments, reductive dehalogenation by OHRB in mainstream WWTPs remains poorly understood. In this study, we quantified OHRB during a long-term operation of a municipal

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WWTP with short hydraulic and sludge ...

Abundance of organohalide respiring bacteria and their ...

Many organohalide respiring bacteria require corrinoid in the media to support incorporation in the reductive dehalogenase. As yet, the exact nature of the corrinoid cofactor for many RdhA

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enzymes has not been conclusively established, and, as one of the most complex cofactors known to date, a wide range of B₁₂-derivatives in terms of upper ...

Organohalide respiration: microbes breathing chlorinated ...

Presence of organohalide-respiring

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bacteria in and around a permeable reactive barrier at a trichloroethylene-contaminated Superfund site ☆ 1.

Introduction. Trichloroethylene (TCE) is one of the most common groundwater contaminants in the United States and was... 2. Materials and methods. Soil ...

Presence of organohalide-respiring

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bacteria in and around ...

Organohalide-respiring bacteria (OHRBs) of diverse phyla have been identified from various environments (8). The key enzyme for organohalide respiration, the reductive dehalogenase, consists of the active subunit (RdhA) and a putative membrane anchor (RdhB).

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Transcriptomic and Proteomic Responses of the Organohalide ...

Organohalide respiration is an anaerobic bacterial respiratory process that uses halogenated hydrocarbons as terminal electron acceptors during electron transport-based energy conservation.

This dechlorination process has triggered considerable interest for

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detoxification of anthropogenic groundwater contaminants.

Overview of organohalide-respiring bacteria and a proposal ...

Organohalide-Respiring Bacteria in Polluted Urban Rivers Employ Novel Bifunctional Reductive Dehalogenases to Dechlorinate Polychlorinated Biphenyls

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and Tetrachloroethene. Article (PDF Available ...

(PDF) Organohalide-Respiring Bacteria in Polluted Urban ...

Organohalide-respiring bacteria (OHRB) “breathe” halogenated compounds for energy conservation. This fascinating process has received increasing

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attention over the last two decades revealing the...

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This book summarizes the current state of knowledge concerning bacteria that use halogenated organic compounds as respiratory electron acceptors. The

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discovery of organohalide-respiring bacteria has expanded the range of electron acceptors used for energy conservation, and serves as a prime example of how scientific discoveries are enabling innovative engineering solutions that have transformed remediation practice.

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Organohalide-Respiring Bacteria, Adrian, Lorenz, Löffler ...

Dehalobacter restrictus strain PER-K23 is an obligate organohalide respiring bacterium, which displays extremely narrow metabolic capabilities. It grows only via coupling energy conservation to anaerobic respiration of tetra- and trichloroethene with hydrogen as sole

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electron donor.

The restricted metabolism of the obligate organohalide ...

Reductive dehalogenases (EC 1.97.1.8) are a group of enzymes utilized in organohalide respiring bacteria. These enzymes are mostly attached to the periplasmic side of the cytoplasmic

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membrane and play a central role in energy-conserving respiratory process for organohalide respiring bacteria by reducing organohalides.

Reductive dehalogenases - Wikipedia

During reductive dechlorination, hydrogenotrophic organohalide-respiring

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bacteria, in particular Dehalococcoidia, can consume hydrogen to low consumption threshold concentrations (<0.3 nM) and enable syntrophic oxidation processes.

Roles of Organohalide-Respiring Dehalococcoidia in Carbon ...

The phylum Chloroflexi contains several

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isolated bacteria that have been found to respire a diverse array of halogenated anthropogenic chemicals. The distribution and role of these Chloroflexi in uncontaminated terrestrial environments, where abundant natural organohalogens could function as potential electron acceptors, have not been studied.

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Natural Niche for Organohalide-Respiring Chloroflexi ...

Organohalide-respiring bacteria in polluted urban rivers employ novel bifunctional reductive dehalogenases to dechlorinate polychlorinated biphenyls and tetrachloroethene.

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