

Volatile Organic Compounds A Bacterial Contribution To

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Volatile Organic Compounds A Bacterial

Bacterial volatiles compounds of organic origins include several chemical classes such as fatty acid derivatives (hydrocarbons, ketones, alcohols), acids, sulfur and nitrogen-containing compounds and terpenes.

Role of bacterial volatile compounds in bacterial biology ...

Microbial Volatile Organic compounds, also known as MVOCs are compounds that are developed in the metabolism of a fungi and bacteria. While volatile compounds (VOCs) are chemical with a much lower molecular weight and low water solubility, MVOCs are released into the air as a byproduct of the metabolic process of a decay agent.

Microbial Volatile Organic Compounds (MVOC)

Volatile organic compounds (VOCs) are organic chemicals that have a high vapor pressure at ordinary room temperature. Their high vapor pressure results from a low boiling point, which causes large numbers of molecules to evaporate or sublimate from the liquid or solid form of the compound and enter the surrounding air, a trait known as volatility. For example, formaldehyde, which evaporates from ...

Volatile organic compound - Wikipedia

Bacterial volatiles compounds derived from organic molecules include numerous chemical classes such as fatty acid derivatives (hydrocarbons, ketones, alcohols), acids, sulfur and nitrogen-containing compounds and terpenes. Table 1: Types of bacterial volatile organic compounds Biological role of bacterial volatiles

Significance of Bacterial Volatile Organic Compounds in ...

Biotic interactions through diffusible and volatile organic compounds (VOCs) are frequent in nature. Soil bacteria are well-known producers of a wide range of volatile compounds (both organic and inorganic) with various biologically relevant activities. Since the last decade, they have been identified as natural biocontrol agents.

Soil bacterial diffusible and volatile organic compounds ...

Introduction The study and detection of volatile organic compounds (VOCs) originating from or interacting with organisms ranging from bacteria to humans have numerous applications in biology,...

Metabolic Profiling of Volatile Organic Compounds (VOCs ...

Microbial volatile organic compounds (MVOCs) are a variety of compounds formed in the metabolism of fungi and bacteria. Of more than 200 compounds identified as MVOCs in laboratory experiments, none can be regarded as exclusively of microbial origin or as specific for certain microbial species.

Microbial volatile organic compounds.

Volatile organic compounds (VOCs) are chemicals that both vaporize into air and dissolve in water. VOCs are pervasive in daily life, because they're used in industry, agriculture, transportation, and day-to-day activities around the home. Once released into groundwater, many VOCs are persistent and can migrate to drinking-water supply wells.

Volatile Organic Compounds (VOCs) - USGS

Microorganisms from diverse ecosystems produce a wide range of volatile organic compounds. Compared with other secondary metabolites (for example, enzymes, antibiotics and toxins), volatiles are ...

Volatile affairs in microbial interactions | The ISME Journal

Volatile organic compounds (VOCs) are carbon-based solids and liquids that readily enter the gas phase by vaporizing at 0.01 kPa at a temperature of approximately 20 °C (Pagans et al., 2006). Most are lipid soluble and thus have low water solubility.

Fungal volatile organic compounds: A review with emphasis ...

Specifically, VOC derived carbon accounted for 2.0, 0.61, 0.18, and 0.08% of carbon in the microbial biomass, dissolved organic matter, mineral associated organic matter, and particulate organic matter pools, respectively. We also show that litter-derived VOCs can affect soil bacterial and fungal community diversity and composition.

Volatile organic compounds from leaf litter decomposition ...

Microbial volatile organic compounds (MVOCs) are volatile organic compounds that can be produced by microorganisms in their primary or secondary metabolism. In total, around 1200 MVOC have been identified and around 250 MVOC from mold have been measured in indoor environmental studies.

Volatile Organic Compound - an overview | ScienceDirect Topics

Volatile organic compounds (VOCs) produced by roots may exert short and long distance effects on microbes in the rhizosphere and endophytic compartment.

Volatile Organic Compound Mediated Interactions at the ...

Magnifying glasses indicate the universal presence of bacteria and fungi and their potential for microbial volatile organic compound (mVOC) production (drawn by Marco Kai and Uta Effmert). Besides the elucidation of their chemical structures, unravelling the biological functions of mVOCs will be one of the major tasks in the future.

The emerging importance of microbial volatile organic ...

It has long been known that bacteria emit volatile organic compounds (VOCs) as by-products of metabolism.

Analysis of Volatile Organic Compounds of Bacterial Origin ...

Specifically, VOC derived carbon accounted for 2.0, 0.61, 0.18, and 0.08% of carbon in the microbial biomass, dissolved organic matter, mineral associated organic matter, and particulate organic matter pools, respectively. We also show that litter-derived VOCs can affect soil bacterial and fungal community diversity and composition.

Volatile organic compounds from leaf litter decomposition ...

Volatile organic compounds (VOCs), produced by bacteria as waste products or primary metabolites (e.g., acetone, ethanol, or acetic acid), or as secondary metabolites (e.g., signaling molecules), may be produced in different quantities and combinations by each bacterial species or serovar, generating characteristic odors.

Fast Detection of Volatile Organic Compounds from ...

Traditional volatile organic compounds (VOCs) are mainly industrial made chemicals with low molecular weights, high vapor pressure and low water solubility. Additionally, mVOCs are released from metabolic processes of decay agents like fungi, bacteria and biofilm.

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