Volatile Organic Compounds A Bacterial Contribution To

Significance of Bacterial Volatile Organic Compounds in ... Soil bacterial diffusible and volatile organic compounds ...
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Significance of Bacterial Volatile Organic Compounds in ...
Volatile organic compounds (VOCs) are organic chemicals that readily produce vapors at ambient temperatures, and are therefore emitted as gases from certain solids or liquids. All organic compounds contain carbon, and organic chemicals are the basic chemicals found in all living things.

Soil bacterial diffusible and volatile organic compounds ...
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.

Volatile Organic Compounds A Bacterial
In the decade since it was first reported that volatile organic compounds (VOCs) released by bacteria can promote plant growth, it has become clear that VOC-mediated interactions between bacteria and plants are widespread (reviewed in Bailly and Weisskopf, 2012).The effects of VOCs on plants have been found to vary, ranging from plant growth promotion to inhibition, even within the same ...

Volatile Organic Compound - an overview | ScienceDirect Topics
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.

Microbial Volatile Organic Compounds: Critical Reviews in ...
Fast detection of volatile organic compounds from bacterial cultures by secondary electrospray ionization-mass spectrometry Jiangjiang Zhu, Heather Bean , Yin Ming Kuo, Jane E. Hill Research output : Contribution to journal › Article

(PDF) Bacterial Volatile Organic Compounds: A New Insight ...
bacteria environment fungi microbial interactions volatile organic compounds This revised version was published online in August 2006 with corrections to the Cover Date. This is a preview of subscription content, log in to check access.

Microbial Volatile Organic Compounds (MVOC) | AWA Mold ...
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

Role of bacterial volatile compounds in bacterial biology ...
Effect of bacterial volatile organic compounds (VOCs) on chilli pepper biomass (A). Total fresh weight (B) and primary root length (C) of chilli seedlings grown in the same plate but with no direct

physical contact with bacterial isolates.

MICROBIAL VOLATILE ORGANIC COMPOUNDS | Request PDF
Bacteria are known to produce a range of volatile organic compounds (VOCs). VOCs are thought to evolve as products or by-products of metabolic pathways; for example, the generation of hydrocarbons, aliphatic alcohols and ketones from fatty acid biosynthesis, whereas indole evolves from the breakdown of the amino acid tryptophan (1).

Plant Growth Promotion by Volatile Organic Compounds ...
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Volatile Organic Compounds: A Bacterial Contribution to ...
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Identification of Volatile Organic Compounds Produced by ...
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.

Fast Detection of Volatile Organic Compounds from ...
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.
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.

Volatile organic compound - Wikipedia
Gas chromatographic analysis of the bacterial volatiles led to the identification of an array of volatile organic compounds (VOCs). Time course studies showed the modification of the VOCs profile ...

Fast detection of volatile organic compounds from ...
Huang M, Sanchez-Moreiras AM, Abel C, Sohrabi R, Lee S, Gershenzon J, Tholl D (2012) The major volatile organic compound emitted from Arabidopsis thaliana flowers, the sesquiterpene (E)-β-caryophyllene, is a defense against a bacterial pathogen.

The consequences of volatile organic compound mediated ...
bacteria can regulate plant growth from a distance without any contact, suggesting the possibility that these bacteria emit invisible volatile compounds that promote or inhibit plant growth. Nearly 350 bacterial species have been reported to produce around 846 different potential VOCs, with 5431 synonyms (Lemfack et al.,2014).

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