

Online Library Volatile Organic Compounds A Bacterial Contribution To

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WHAT ARE VOLATILE ORGANIC COMPOUNDS (VOC'S)?
Volatile Organic Compounds Stop and Smell the Volatile Organic Compounds
Volatiles: 'The scent of soil'
~~Measuring Volatile Organic Compounds (VOCs)~~
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~~Organic Compounds A Bacterial~~

Bacterial volatile 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 ...~~

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 Weiskopf, 2012).

~~Volatile Organic Compounds: A Bacterial Contribution to ...~~

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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~~

...

Bacteria volatile organic compounds form a bioactive interface between plants and a myriad of microorganisms above and below ground where most of the interactions take place. BVOCs are intriguingly complex and dynamic and understanding their ecology and evolution is the key to bioprospecting suitable tools for crop protection and production for sustainable agriculture perspective.

~~Significance of Bacterial Volatile Organic Compounds in ...~~

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Song GC, Ryu CM (2013) Two volatile organic compounds trigger plant self-defense against a bacterial pathogen and a sucking insect in cucumber under open field conditions. *Int J Mol Sci* 14:9803–9819 Google Scholar

~~Bacterial Volatile Organic Compounds: A New Insight for ...~~

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.

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~~Microbial Volatile Organic Compounds (MVOC)~~

Volatiles originate from both anthropogenic and biogenic sources. Whereas animal and plant volatile emissions have been comprehensively studied in the past, volatiles of microorganisms (i.e. bacteria and fungi) have been mostly neglected (Fig. 1). Only recently has the wealth of microbial volatile organic compounds (mVOCs) been discovered.

~~The emerging importance of microbial volatile organic ...~~

This paper describes an experiment to identify volatile organic compounds (VOCs) from a range of three bacteria and one yeast strain that had previously been shown to be inhibitory to selected sapstain fungi. The bacteria and yeast were cultured on two media, malt extract (ME) and tryptone

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soya (TS) and the VOCs trapped on chromatographic adsorbant before being analysed by Integrated Thermal Desorption—GC-MS.

~~Identification of volatile organic compounds (VOCs) from ...~~
VOC (volatile organic compounds) are all compounds that appear in the gas chromatogram between and including n -hexane and n -hexadecane. Compounds appearing earlier are called VVOC (very volatile organic compounds); compounds appearing later are called SVOC (semi-volatile organic compounds).

~~Volatile organic compound—Wikipedia~~

The analysis of volatile organic compounds (VOCs) as a tool

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for bacterial identification is reported. Headspace solid-phase microextraction (HS-SPME) coupled to gas chromatography-mass spectrometry (GC-MS) was applied to the analysis of bacterial VOCs with the aim of determining the impact of experimental parameters on the generated VOC profiles.

~~Identification of volatile organic compounds produced by ...~~

It is known that volatile organic compounds (VOCs), produced in different combinations and quantities by bacteria as metabolites, generate characteristic odors for certain bacteria. These VOCs comprise a specific metabolic profile that can be used for species or serovar identification, but rapid and sensitive analytical methods are required for

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broad utility.

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

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~~

...

These metabolites are commonly denominated as Volatile Organic Compounds (VOCs) and can act directly against the pathogen (direct antibiosis) by destroying the cell wall or

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indirectly, inducing systemic resistance to the plant (Chen et al., 2008; Zheng et al., 2013).

~~Antifungal activity of the volatile organic compounds ...~~
Bacterial community richness shifts the balance between volatile organic compound-mediated microbe–pathogen and microbe–plant interactions Abstract Even though bacteria are important in determining plant growth and health via volatile organic compounds (VOCs), it is unclear how these beneficial effects emerge in multi-species microbiomes.

~~Bacterial community richness shifts the balance between ...~~
Microbial volatile organic compounds are often similar to

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common industrial chemicals. Scientists have identified more than 200 of these chemical compounds but the list is ever expanding as the research continues.

~~Microbial Volatile Organic Compounds—MVOC~~

Bacteria have been shown to liberate a wide range of volatile organic compounds (VOCs).^{1,2} Several analytical methods which have focussed on the detection of VOCs liberated by bacteria have been developed.

~~Analysis of pathogenic bacteria using exogenous volatile ...~~

2.3. Volatile organic compound analysis 2.3.1. Solid phase microextraction for volatile organic compounds.

Independent bagged rocket salad samples for each

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treatment (70 g) were analysed by SPME and were left at room temperature for ten minutes prior to sampling.

~~Changes in bacterial loads, gas composition, volatile ...~~

There has been an increasing interest in the use of volatile organic compounds (VOCs) as potential surrogate markers of gut dysbiosis in gastrointestinal disease. Gut dysbiosis occurs when pathological imbalances in gut bacterial colonies precipitate disease and has been linked to the dysmetabolism of bile acids (BA) in the gut.

Bacterial Volatile Compounds as Mediators of Airborne

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Interactions Biosensing Technologies for the Detection of Pathogens Volatiles and Metabolites of Microbes
Deciphering Chemical Language of Plant Communication
Volatile Biomarkers Development of the First Database of Microbial Volatile Organic Compounds and Analysis of the Skin Bacterial Volatiles and Their Effect in Bacteria-bacteria Interactions Fungal Associations Transport, Behavior, and Fate of Volatile Organic Compounds in Streams Progress in Volatile Organic Compounds Research Soil Protists Smelly Fumes: Volatile-Mediated Communication between Bacteria and Other Organisms Microorganisms in Home and Indoor Work Environments Microorganisms for Green Revolution Environmental Mycology in Public Health Volatile Organic Compounds Produced by Spoilage Bacteria from

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Commercial Ground Beef Degradation of Volatile Organic Compounds by Various Bacteria Isolated from the Environment Breathborne Biomarkers and the Human Volatilome Preliminary Assessment of Microbial Communities and Biodegradation of Chlorinated Volatile Organic Compounds in Wetlands at Cluster 13, Lauderick Creek Area, Aberdeen Proving Ground, Maryland Climate Change and Agricultural Ecosystems Volatile Compounds and Smell Chemicals (Odor and Aroma) of Food
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