

Online Library Volatile
Organic Compounds A

**Bacterial Contribution To
Volatile Organic
Compounds A
Bacterial Contribution
To**

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mVOCs- Microbial Volatile Organic
Compounds *What Are Volatile
Organic Compounds (VOCs)?*
What are Volatile Organic
Compounds (VOCs)? WHAT ARE

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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) What Are
Volatile Organic Compounds*

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~~(VOCs)? Measuring volatile
organic compound (VOC) Why do
Elephants Never Forget? |
#aumsum #kids #science
#education #children What Are
VOCs and How Do You Remove
Them? 7 People You Won't
Believe Existed Till You See Them~~

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~~How long for mattress VOCs to
offgas? VOC /Formaldehyde
detector in Open \u0026amp; Closed
Environment WCYDWT: Bacteria~~

Phage preparation | 1. Isolation
from the environment **The Secret
Social Life of Plants** *Mold in
Walls, Part 1* ~~Semi-Volatile~~

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~~Organic Compounds Volatile
Organic Compounds (VOCs)
Indoor Pollutants (Environment
Pollution) volatile organic
compounds (in hindi) Volatile
Organic Compounds (VOC) -
Terpenes in the Atmosphere
VOCs \u0026amp; New~~

Online Library Volatile Organic Compounds A **Construction**

Tiger - Volatile organic compound
detector *Bacteriën / Bacteria -
VOC's / Volatile Organic
Compound / Vluchtige Organische
Stof* ~~Why can't we Smell or Taste
with a Cold? | #aumsum #kids
#science #education #children~~

Online Library Volatile Organic Compounds A ~~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

Online Library Volatile Organic Compounds A Bacterial Contribution To 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

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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~~

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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

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Key to bioprospecting suitable
tools for crop protection and
production for sustainable
agriculture perspective.

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

Song GC, Ryu CM (2013) Two

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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~~

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~~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

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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)~~

Volatiles originate from both

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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

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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

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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 soya (TS) and the

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Organic Compounds A
Bacterial Contribution To
VOCs trapped on
chromatographic adsorbant
before being analysed by
Integrated Thermal
Desorption—GC-MS.

~~Identification of volatile organic
compounds (VOCs) from ...~~

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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

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appearing later are called SVOC
(semi-volatile organic
compounds).

~~Volatile organic compound—
Wikipedia~~

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

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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

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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

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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

Online Library Volatile Organic Compounds A required for 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

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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~~

Online Library Volatile Organic Compounds A ~~emphasis~~ Contribution To

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 indirectly, inducing systemic resistance to the plant

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(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-

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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

Online Library Volatile Organic Compounds A microbiomes. Contribution To

~~Bacterial community richness
shifts the balance between ...~~
Microbial volatile organic
compounds are often similar to
common industrial chemicals.
Scientists have identified more

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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

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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~~

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~~Bacterial Contamination To
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 treatment (70 g) were analysed by SPME and were left

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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

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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.

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