

NONCULTURABLE MICROORGANISMS IN THE ENVIRONMENT

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[Nonculturable Microorganisms in the Environment](#) [Nonculturable Microorganisms in the Environment](#) Edited by Rita R. Colwell Center of Marine Biotechnology, Columbus Center, University of Maryland Biotechnology Institute.

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Implications of the Viable but Nonculturable State in Risk Assessment Based on Field Testing of Genetically Engineered Microorganisms

[Nonculturable microorganisms in the environment.](#)

This book discusses nonculturable microorganisms in the environment. 18 chapters are presented which discuss: semantics and strategies; morphological changes leading to the non-culturable state; size matters - dwarf cells in soil and subsurface terrestrial environments; membrane bioenergetics in reference to marine bacterial culturability

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The term nonculturable was invoked by Xu et al. in 1982 (47) to describe starved but viable cells in a survival or dormant state of existence, observed to occur after an actively growing

[Viable but nonculturable - Wikipedia](#)

Viable but nonculturable (VBNC) bacteria refers to bacteria that are in a state of very low metabolic activity and do not divide, but are alive and have the ability to become culturable once resuscitated.

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[Isolating "Uncultivable" Microorganisms in Pure Culture in ...](#)

Abstract. The majority (>99%) of microorganisms from the environment resist cultivation in the laboratory. Ribosomal RNA analysis suggests that uncultivated organisms are found in nearly every prokaryotic group, and several divisions have no known cultivable representatives.

[Viable but Nonculturable Bacteria in Drinking Water](#) Bacteria demonstrating the viable but nonculturable state

have to date included only gram-negative species, mainly because the DVC procedure does not lend itself to the **The Viable but Nonculturable Concept, Bacteria in Urine ...**

The intriguing conclusion that there is an abundant source of nonculturable prokaryotic cells in the urinary tracts of humans and mice seems unavoidable. However, we are concerned that the title of the paper and the assumption that the bacteria detected were in the viable but nonculturable (VBNC) state is not justified by either those authors' data or the preceding literature. In particular **Determination of Plasmid DNA Concentration Maintained ...**

ically engineered microorganisms into the environment. If nonculturable cells, reflecting a lower level of carriage of plasmid DNA in the nonculturable state. In our previous studies

The importance of the viable but non-culturable state in ...

The occurrence of VBNC cells and their importance. Many species of bacteria enter the VBNC state when they are exposed to stressful conditions such as starvation and low temperatures (e.g., Biosca et al., 1996; Du et al., 2007), suggesting that this is an adaptive strategy for long-term survival of bacteria under unfavorable

Journal of Occupational and Environmental Hygiene
Dynamic dental instruments generate abundant aerosols in the work environment. Dental unit waterlines (DUWL) support a large microbial population and can be a significant source of bioaerosols generated during dental treatments.

Determination of plasmid DNA concentration maintained by ...

The concentration of plasmid pBR322 DNA in nonculturable *Escherichia coli* JM83 was measured to determine whether the plasmid concentration changed during survival of *E. coli* in marine and

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Electrochemical investigation of the dynamics of ...

The identification of latent pathogens that exist in a dormant, nonculturable state is the key element of the

technique, and the electrochemical procedure reported here is an essential element for the determination of reliable information on the transition of bacteria into the dormant, nonculturable state.