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Extremophiles - Extreme Organisms

Extremophiles are organisms that grow optimally in extreme environments of temperature below 10°C or above 80°C, salinity reaching that of saturated NaCl, pH below 4 or above 9, and/or pressures above 400 atmospheres. The enzymes within extremophiles must be rugged to resist denaturation or even partial unfolding (Daniel, Danson and Eisenthal, 2001).

What we learn from extremophiles | SpringerLink

We focused on two deep-sea extremophiles in this article; one is

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"Piezophiles", and another is "Hyperthermophiles". Piezophiles are typical microorganisms adapted to high-pressure and cold temperature environments, and located in deep-sea bottom.

Extremophile - Wikipedia

Extremophiles can live and reproduce in environments that would kill most other living beings. Extremely high or low temperatures, extreme pressures, for example, are environments where extremophiles can exist. So are high levels of salt or other substances in water. Some extremophiles can even survive in the vacuum and radiation of outer space.

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Status ...

Extremophiles - Adaptations, interdependence and ...

Deep-Sea Ecosystems: Extreme Living
Deep-Sea Ecosystems: Extreme Living
Students discuss how they and other organisms adapt to survive in different environments. They discover the characteristics of deep-sea extremophiles that help those organisms survive in several deep-sea ecosystems.

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Extremophiles are organisms that thrive under conditions, that are considered hostile to humans. Such environments include hot springs with temperatures close to the boiling point of water or the deep sea, where low temperatures are associated with high water pressure.

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Subject: Extremophiles In Deep Sea

Environments Keywords: extremophiles,

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Life in Extreme Water Environments - sea, depth, oceans ...

Many organisms in deep-sea environments are extremophiles thriving in extreme conditions: high pressure, high or low temperature, or high

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concentrations of inorganic compounds. This book presents the microbiology of extremophiles living in the deep sea and describes the isolation, cultivation, and taxonomic identification of microorganisms retrieved from the Mariana Trench, the world's deepest ...

What are extremophiles? Definition and examples

Extremophiles are organisms that live and thrive in habitats where life is impossible for most living organisms. The suffix comes from the Greek philos meaning to love. Extremophiles have a "love for" or attraction to extreme environments. Extremophiles have the ability to withstand conditions such as high radiation, high or low pressure, high or low pH, lack of light, extreme heat, extreme ...

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An extremophile (from Latin extremus meaning "extreme" and Greek philiā

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(φιλία) meaning "love") is an organism with optimal growth in environmental conditions considered extreme in that it is challenging for a carbon-based life form, such as all life on Earth, to survive.. These organisms are dominants in the evolutionary history of the planet.

Extremophiles in Deep-Sea Environments | K. Horikoshi ...

Many organisms in deep-sea environments are extremophiles thriving in extreme conditions: high pressure, high or low temperature, or high concentrations of inorganic compounds. This book presents the microbiology of extremophiles living in the deep sea and describes the isolation, cultivation, and taxonomic identification of microorganisms retrieved from the Mariana Trench,

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Extremophiles - an overview | ScienceDirect Topics

Consequently, extremophiles can also be found in aphotic (non-light) environments, such as deep in the ocean or in the Earth's subsurface. In hydrothermal vent environments on the ocean floor, complex ecosystems have been found in which the organisms (including large, multicellular animals) derive their energy entirely from chemical sources provided by the hot fluids issuing from the vent.

Extremophiles in Deep-Sea

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Environments - Google Books

Many organisms in deep-sea environments are extremophiles thriving in extreme conditions: high pressure, high or low temperature, or high concentrations of inorganic compounds. This book presents the microbiology of extremophiles living in the deep sea and describes the isolation, cultivation, and taxonomic identification of microorganisms retrieved from the Mariana Trench, the world's deepest ...

Extremophile deep-sea viral communities from hydrothermal ...

Extremophiles. An extremophile is an organism that lives in an extreme environment. ... Deep sea volcanic vents are places on the ocean floor where the volcanic gases of underground magma chambers ...

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Many organisms in deep-sea environments are extremophiles thriving

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There is currently a lack of knowledge about the structure and ecology of ssDNA viruses in these deep-sea environments. However, it could be inferred that the viral communities within the hydrothermal vents are likely to be stratified in the same way that has been reported for bacterial communities (Dick et al., 2013).