Adaptation to desert environment - a study on the jerboa, rat and man.

Butterworths - Plant and animal adaptations in the desert

Description: -
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Sports & Recreation
United States - Mountain - Colorado
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Desert animals -- Physiology.
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Adaptations of Animal to Desert Environment

It might be expected that those groups of animals which are already well adapted for terrestrial life in a general way, will be better represented in deserts than those which are not. There is waxy coating and sunken type of stomata on leaves, which reduces loss of water during transpiration. Micropuncture study of urea medullary recycling in desert rodents.

Jerboa

The grasses bunchgrass in desert ecosystem also grow in isolated tufts.

Adaptation to desert environment : a study on the jerboa, rat and man

Opuntia, Aloe, Euphorbia, Yucca and Agave have mastered the art of enduring in the desert ecosystem by economizing in their expenditures of moisture. Active ion transport in the renal proximal tubule. During aestivation, the breathing, heartbeat and other body activities slowdown, this in turn decreases the need of water.

Adaptations of Animal to Desert Environment

They remain in burrows during the day, and conserve water by excreting very concentrated urine and by hygroscopic water in their food. These are prone to severe wind erosion.

The Physiological Adaptations of Desert Rodents

ADVERTISEMENTS: Adaptation to life on land presents animals with a number of physiological problems which become most acute in desert regions. Camels have nostrils that can close, and this protects them from sand blown by the desert wind.

What is an adaptive feature of nephron in a desert mammal, like camel?

In this region, the blood from the artery exchange heat with the blood in the veins, which have been cooled in the nasal passages by respiratory evaporation. Unique blood cells The viscosity of blood in a camel can remain relatively the same even when it is severely dehydrated.

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