

# **Comparative physiology of respiratory mechanisms.**

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- comparative physiology of respiratory mechanisms.
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Notes: Originally published, University of Pennsylvania Press, 1941.

This edition was published in 1968



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## **Comparative respiratory physiology: the fundamental mechanisms and the**

While O<sub>2</sub> extraction in the water breathers is high, eg. 90% in sponges; 60%—90% in the crab, *Calappa granulata*; 33%—70% in the octopus; 85% in the eel; , and, on average, 85% in fishes, FIO<sub>2</sub> rarely exceeds 25% in air breathers. ADVERTISEMENTS: Carbon dioxide is more soluble in water than oxygen. These components are responsible for the nerve impulses, which are transmitted via the phrenic and other motor nerves to the diaphragm and intercostal muscles, controlling our basic breathing rhythm.

## The Comparative Physiology of Respiratory Mechanisms

A complete avian respiratory cycle involves two inspirations and two expirations unlike mammals which involve only one. A surface active phospholipid substance surfactant lines the respiratory surface.

## A Brief History of Comparative Respiratory Physiology: Some Ideas and Their Proponents

Many accounts which deal with adaptations of organisms to dissolved respiratory gas levels in water largely address the availability of O<sub>2</sub> rather than the concentration of CO<sub>2</sub>. When we breathe out, not all of the air in the lungs gets expelled. This work is published and licensed by Dove Medical Press Limited.

## Comparative Animal Respiration

Carbon dioxide is toxic and must be eliminated.

## **Comparative Animal Respiration**

Upper Saddle River, NJ: Pearson Education, 2007.

## **Human Respiratory System and it's Mechanism (with diagram)**

The operculum the bony flap on the outside of the gills which is used to protect them remains closed to prevent water escaping.

## Related Books

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