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PDF. Modeling of Gas Exchange in Lungs, Gills and Skin. J. Piiper. Pages 15-44. PDF. ... Vertebrate Gas Exchange details the structures involved in convecting the medium (air or water), the morphometrics of capillary gas transfers, and gas transfer kinetics. Important features include details on measurement techniques associated with tissue ...

Vertebrate Gas Exchange | SpringerLink

It has been great fun to write this book, even though it has taken longer than planned, and occasionally been exasperating. The most difficult problem was deciding what to exclude among so many interesting things, because the available material usually exceeded the space.

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ABSTRACT All vertebrates need oxygen for aerobic energy supply. Lungs and gills are the organs specialized for O₂ and CO₂ exchange between air or water and blood; in some animals, the skin serves this task, partly or exclusively. Functional characteristics of gas-exchange systems in different vertebrate groups are discussed.

Gas Exchange in Vertebrates Through Lungs, Gills, and Skin

A comparative meta-analysis of maximal aerobic metabolism of vertebrates: Implications for respiratory and cardiovascular limits to gas exchange

(PDF) A comparative meta-analysis of maximal aerobic

Respiratory gas transport in external gas exchange organs of vertebrates involves both diffusion and convection. The relative significance of both transport mechanisms depends on physical (e.g. solubility, diffusivity), physiologic (e.g. medium and blood flow rates) and structural factors (arrangement of medium to blood flow).

Diffusion in Gas Exchange of Vertebrates - ScienceDirect

Comparative Physiology of the Respiratory System in the Animal Kingdom ... The evolution of the vertebrate respiratory system ... the gas exchange, in order to develop an effective system of exchange. The existence of multicellular organisms, led to

Open Access Comparative Physiology of the Respiratory

Gas exchange is the process by which oxygen and carbon dioxide (the respiratory gases) move in opposite directions across an organism's respiratory membranes, between the air or water of the external environment and the body fluids of the internal environment.

Gas Exchange - Biology Encyclopedia - cells, body, process

Gas exchange is thus an essential process in energy metabolism, and gas exchange is an essential prerequisite to life, because where energy is lacking, life cannot continue. The basic mechanism of gas exchange is diffusion across a moist membrane.

Mechanisms for Gas Exchange - CliffsNotes

2 Thin barriers aid the process Thin walls of respiratory organs reduce distance between environment & blood 3) Resistance: to diffusion by a tissue barrier Moist amphibian _____ facilitates gas transfer Mammal skin: cornified & thick _____ gas diffusion with environment Most important factor affecting diffusion rate is the difference in partial pressures across the exchange surface _____ of ...

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Beginning with an examination of the natural oscillations of respiratory gases in both terrestrial and aquatic environments, Vertebrate Gas Exchange details the structures involved in convecting the medium (air or water), the morphometrics of capillary gas transfers, and gas transfer kinetics.

Vertebrate Gas Exchange: From Environment to Cell book by

The consistency in vertebrate gas exchange at MMR from fish through birds and mammals from the perspective of maximal rates of CO₂ and O₂ exchange suggests a common blueprint or Bauplan, in the vertebrate clade.

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