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Diverse Effects Of Hypoxia On

Solid tumors frequently contain areas of oxygen deprivation (hypoxia) due to rapid cell proliferation and/or vascular insufficiency. The presence of hypoxic domains typically correlates with poor patient prognosis, due to the relative resistance of hypoxic cells to conventional cancer therapies and effects of O₂ availability on disease progression.

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When your body doesn't have enough oxygen, you could get hypoxemia or hypoxia. These are dangerous conditions. Without oxygen, your brain, liver, and other organs can be damaged just minutes after...

Hypoxia and Hypoxemia: Symptoms, Treatment, Causes

Examines hypoxia, which is defined as reduced oxygen tension and a common physiological phenomenon in both normal embryonic development and malignancy progression Hypoxia promotes cancer progression by regulating various aspects of cancer biology, including radiotherapy resistance, metabolism, angiogenesis and invasion/migration

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Hypoxia can cause serious short-term and long-term side effects; in worst-case scenarios, hypoxia results in comas and death. Short-term side effects can include dizziness, concentration and attention problems, and vertigo. Long-term side effects can cause problems with memory, speech, and vision.

Signs of Hypoxia Every Diver Should Know - Ideal Dive

In this issue of Current Topics in Microbiology and Immunology, the authors present articles describing the impact of hypoxia on components of the tumor microenvironment (such as endothelial cells, inflammatory cells, and tumor associated fibroblasts), the expression of unique microRNAs, tumor cell differentiation status, and metastasis.

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Diverse Effects of Hypoxia on Tumor Progression. [M Celeste Simon] -- Solid tumors frequently contain areas of oxygen deprivation (hypoxia) due to rapid cell proliferation and/or vascular insufficiency.

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Hypoxia has been shown to have a role in the pathogenesis of several forms of liver disease. The Hypoxia Inducible Factors (HIFs) are a family of evolutionarily conserved transcriptional regulators that affect a homeostatic response to low oxygen tension and have been identified as key mediators of angiogenesis, inflammation, and metabolism.

Hypoxia and Hypoxia Inducible Factors: Diverse Roles in ...

Hypoxemia can cause mild problems such as headaches and shortness of breath. In severe cases, it can interfere with heart and brain function. Hypoxemia that causes low oxygen levels in your body's tissues is called hypoxia. Sometimes people use the two terms interchangeably, but they are not the same thing.

Hypoxemia: Symptoms, Causes, Treatments

Stagnant hypoxia, in which blood flow through the capillaries is insufficient to supply the tissues, may be general or local. If general, it may result from heart disease that impairs the circulation, impairment of venous return of blood, or trauma that induces shock.

hypoxia | Definition, Types, & Physiological Effects ...

Clinicians are well aware of the acute effects of hypoxemia when encountered in conditions such as pulmonary embolism, pulmonary edema, COPD exacerbation, and others, whereas effects of chronic hypoxemia, such as pulmonary hypertension and polycythemia, are more difficult to recognize. Chronic hypoxemia is frequent in chronic lung diseases, such as COPD, but how it leads to increased mortality in severe COPD is unknown (NHLBI Working Group for LTOT in COPD).

The burgeoning role of sleep-related chronic hypoxia in ...

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Gestational hypoxia caused low birth-weight and changes in young adult offspring brain, mimicking those in human neuropsychiatric disease. Exposure of cultured neurons to fetal plasma or to secretions from the placenta or from model trophoblast barriers that had been exposed to altered oxygenation caused similar morphological changes.

Treating the placenta to prevent adverse effects of ...

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Current Topics in Microbiology and Immunology

HYPOXIA AND ISCHEMIA HAVE DRAMATICALLY DIVERGENT EFFECTS ON THE HUMAN BRAIN The central nervous system is arguably the organ system that is the most sensitive to short- and long-term impairment from oxygen and/or blood flow deprivation. Ischemic cerebrovascular disease is 1 of the top 5 causes of death worldwide.

Effects of Acute, Profound Hypoxia on Healthy Humans ...

Hypoxia, defined as reduced oxygen tension, is a common physiological phenomenon in both normal embryonic development and malignancy progression. Although severe hypoxia is generally toxic for both normal tissue and tumors, neoplastic cells gradually adapt to prolonged hypoxia though additional genetic and genomic changes with a net result that hypoxia promotes tumor progression and therapeutic resistance.

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In mouse lung and mammary tumor cells, hypoxia led to increases in cell adhesion, clotting, and fibrin deposition; these increases were eliminated in HIF1 α null cells. Increased levels of HIF1 α were also associated with increased tissue factor expression in human breast tumor samples.

Diverse roles of cell-specific hypoxia-inducible factor 1 ...

Animal studies demonstrate a favorable effect of exposure to hypoxia on CVD. In contrast to the adult mammalian heart, which is one of the least proliferative organs, some vertebrate species, such as zebrafish, have a remarkable capacity for heart regeneration (Poss et al., 2002).

The Effect of Hypoxia on Cardiovascular Disease: Friend or ...

The Lagos lagoon, Nigeria receives lots of organic wastes from anthropogenic sources. The biodegradation of these wastes by aerobic microbes has resulted in the depletion of the dissolved oxygen. Study of this area of the lagoon was conducted for two

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