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HYPOXIA AND OXIDATIVE STRESS: ROLE OF ANEROBIC GUT, F



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2963133>

Oct 19, 2010 · If at that stage exposed to **hypoxia**, the fetus has a number of protective options. Immediate protection against **oxidative stress** is established by up-regulation of genes. Stimulation of nitric oxide synthesis enhances cell signaling for **defense mechanisms**, platelet inhibition, and regulation of ...

Cited by: 140

Author: Damian Hutter, John Kingdom, Edgar Jae...

Publish Year: 2010

Academic Editor: Anita J. Moon-Grady

Hypoxic hepatitis - Henrion - 2012 - Liver International ...

<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1478-3231.2011.02655.x>

The liver is protected against impairment in oxygen delivery by vascular mechanisms of defense. A first mechanism is the double-blood delivery by the **hepatic artery** and the portal vein. The portal vein delivers 70–80% of total **liver blood flow**, but because partial pressure in oxygen is higher in the **hepatic artery**, oxygen is equitably delivered by both vessels 32 .

Hypoxia-Inducible Factors and the Response to Hypoxic Stress

<https://www.sciencedirect.com/science/article/pii/S1097276510007501>

In mammals, the primary transcriptional response to **hypoxic stress** is mediated by the **hypoxia-inducible factors** (HIFs). While canonically regulated by **prolyl hydroxylase** domain-containing enzymes (PHDs), the HIF α subunits are intricately responsive to numerous other factors, including factor-inhibiting HIF1 α (FIH1), sirtuins, and metabolites.

Cited by: 1620

Author: Amar J. Majmundar, Waihay J. Wong, M....

Publish Year: 2010

Frontiers | Effects of Acute Hypoxia and Reoxygenation on ...

<https://www.frontiersin.org/articles/10.3389/fphys.2017.00375/full> ▾

In order to provide insight into mechanisms of the **hypoxia adaptation in physiology**, **immune response and oxidative stress** in *M. amblycephala*, some well-known **hypoxia indicators**, Hb, MetHb, glucose, lactate, glucose, and **hepatic glycogen concentrations** were investigated after **hypoxia stress**, and showed the consistency with the previous studies, for instance, Hb and MetHb, ...

Cited by: 4

Author: Nan Chen, Meng Wu, Guo-Pan Tang, Gu...

Publish Year: 2017

Name of Journal: *World Journal of Meta-Analysis*

Manuscript NO: 51457

Manuscript Type: REVIEW

Hypoxia and oxidative stress: The role of the anaerobic gut, the hepatic arterial buffer response and other defence mechanisms of the liver

Abstract

The liver is considered a vital organ for life and is the hub for multiple chemical functions, such as intermediary metabolism and the detoxification of ingested toxins, which are essential for the preservation of life, hence, the origin or the word "liver". The liver has enormous, highly diversified catalytic potential. This enormous catalytic potential generates massive oxidative stress, which is important for the functions served by the liver but is detrimental to the viability of the liver. The liver receives approximately 80% of its blood supply from the portal vein, which brings less saturated blood from the gastrointestinal tract. Hepatocytes operate in a relatively hypoxic microenvironment due to this portal inflow. The development of this hypoxic microenvironment of the liver is an important evolutionary adaptation for its

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Cited by: 1719 Author: Amar J. Majmundar, Waihay J. Wong, M. ...

Publish Year: 2010 位置: 8600 Rockville Pike, Bethesda, MD

2010-10-22 · In a variety of physiological and pathological states, organisms encounter insufficient O₂ availability, or hypoxia. In order to cope with this stress, evolutionarily conserved responses are engaged. In mammals, the primary transcriptional response to hypoxic stress is ...

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Hypoxia-Inducible Factors and the Response to ... 翻译此页

Cited by: 1719 Author: Amar J. Majmundar, Waihay J. Wong, M. ...

Publish Year: 2010

Oxygen (O₂) is an essential nutrient that serves as a key substrate in cellular metabolism and bioenergetics. In a variety of physiological and pathological states, organisms encounter insufficient O₂ availability, or hypoxia. In order to cope with this stress, evolutionarily conserved responses are engaged. In mammals, the primary transcriptional response to hypoxic stress is mediated by the ...

[https://www.cell.com/molecular-cell/fulltext/S1097-2765\(10\)00750-1](https://www.cell.com/molecular-cell/fulltext/S1097-2765(10)00750-1)

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https://www.researchgate.net/publication/51415154_Role_of_Oxidative_Stress_and_NFkB_in...

Causes and Mechanisms of Intrauterine Hypoxia and ... 翻译此页

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Hypoxia inducible factors and the response to hypoxic stress

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Oct 22, 2010 · In a variety of physiological and pathological states, organisms encounter insufficient O₂ availability, or **hypoxia**. In order to cope with this **stress**, evolutionarily conserved responses are engaged. In mammals, the primary transcriptional **response** to hypoxic **stress** is mediated by the **Hypoxia**-inducible factors (HIFs).

Cited by: 1720

Author: Amar J. Majmundar, Waihay J. Wong, M. ...

Publish Year: 2010

Causes and Mechanisms of Intrauterine Hypoxia and Its ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2963133>

Oct 19, 2010 · Causes and **Mechanisms** of Intrauterine **Hypoxia** and Its Impact on the Fetal Cardiovascular System: A Review ... In rat hearts exposed to **oxidative stress**, ... Altered regulatory gene expression in **response** to in-utero **hypoxia** appears to extend into adulthood and mimics the changes that are found in adults with chronic heart failure. **Hypoxia** slows ...

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Author: Damian Hutter, John Kingdom, Edgar Jae...

Publish Year: 2010