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Mechanisms

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Artemisinin and Nitric Oxide Mechanisms and Implications in Disease and Health.

Authors: Zeng, Qing-Ping Free Preview.

Introduces a uniform nitric oxide threshold theory in disease and health; Explains why low-level nitric oxide is beneficial and high-level nitric oxide is harmful for health ...

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Artemisinin and Nitric Oxide - Mechanisms and Implications ...

Furthermore, artemisinin inhibits the activation of the transcription factor NF- κ B and, thereby, nitric oxide synthesis in cytokine-stimulated human astrocytoma T67 cells . Since NF- κ B is involved in the pathogenesis of cerebral malaria, the authors suggested that artemisinin, in

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In addition to its anti-parasitic properties, could also exert a therapeutic effect on neurological complications of malaria.

Effect of artemisinins and other endoperoxides on nitric ...

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Authors (view affiliations) Qing-Ping

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Zeng; Book. 1 Citations; ... In 1992 nitric oxide (NO) was voted "Molecule of the Year" by Science magazine, and the discovery of its physiological roles has led to Nobel Prize-winning work in neuroscience, physiology and ...

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Artemisinin and nitric oxide : mechanisms and implications in disease and health. [Qing-Ping Zeng] -- This book discusses both the beneficial and harmful aspects of NO in biology and medicine, and also introduces the emerging discovery of artemisinin in antitumor, antibacterial infection, ...

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Artemisinin and nitric oxide : mechanisms and implications ...

Artemisinin is a natural product used as an alternative drug in the treatment of severe and multidrug-resistant malaria. In the present work we show that artemisinin shares with other sesquiterpene lactones the ability to inhibit the activation of the nuclear

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factor NF- κ B: by this mechanism,
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artemisinin, as well as parthenolide,
inhibits nitric oxide synthesis in cytokine-
stimulated human astrocytoma T67
cells.

Artemisinin inhibits inducible nitric oxide synthase and ...

Objective: To study and compare the

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anti-inflammatory effect and molecular mechanism of artemisinin and dihydroartemisinin. Method: Mouse mononuclear macrophage RAW264.7 cells were stimulated to release inflammatory mediators such as TNF-alpha, IL-6 and NO, in order to assess the drugs' inhibitory effect on macrophage's release of above

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inflammatory mediators.

[Anti-inflammatory effect and mechanism of artemisinin and ...

In addition to cause a drop-off in TNF- α and other cytokine release from macrophages, artemisinins can also downregulate the production of nitric oxide (NO), which is vital for

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macrophage-mediated inflammatory and immune reactions.

Artemisinins and immune system - ScienceDirect

Artemisinin's endoperoxide moiety is however less sensitive to free iron(II) oxide, and therefore more active in the intraerythrocytic stages of Plasmodium

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falci-parum. In contrast, clinical practice shows that unlike other antimalarials, artemisinin is active during all life cycle stages of the parasite.

Artemisinin - Wikipedia

The relevance of the nitrogen oxides for clinical medicine has been recognized for over a century. Nitrous oxide (N₂O)

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has been used safely and effectively for analgesia and anesthesia since the 18th century. Nitric oxide (NO) has emerged as a chemical messenger in a multitude of biologic systems having homeostatic activity in maintenance of cardiovascular tone, platelet regulation, and ...

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Nitric Oxide: Physiology and Pharmacology : Anesthesia ...

This makes it paramount to understand the molecular mechanism of asthma onset and to explore targeted treatments with reduced resistance and side effects. ... with asthma based on the observation that asthma patients demonstrate significantly increased

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fractional exhaled nitric oxide (FeNO) ...
artemisinin, and anthocyanidin have
been found to ...

Myeloid-derived suppressor cells (MDSCs) and mechanistic ...

More information: Dario Akaberi et al.
Mitigation of the replication of SARS-CoV-2 by nitric oxide in vitro, Redox

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Biology (2020).DOI:
10.1016/j.redox.2020.101734

**Nitric oxide a possible treatment for
COVID-19**

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inhibit the activation of the nuclear factor NF- κ B: by this mechanism, artemisinin, as well as parthenolide, inhibits nitric oxide synthesis in cytokine-stimulated human astrocytoma T67 cells.

Artemisinin inhibits inducible nitric oxide synthase and ...

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This work examined the accumulation of artemisinin and related secondary metabolism pathways in hairy root cultures of *Artemisia annua* L. induced by a fungal-derived cerebroside (2S,2'R,3R,3'E,4E,8E)-1-O- β -d-glucopyranosyl-2-N-(2'-hydroxy-3'-octadecenoyl)-3-hydroxy-9-methyl-4,8-sphingadienine. The presence of the cerebroside induced

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nitric oxide (NO) burst and artemisinin biosynthesis ...

Stimulation of artemisinin synthesis by combined ...

Artemether, a lipid-soluble derivative of artemisinin has been reported to possess anti-inflammatory properties. In this study, we have investigated the

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molecular mechanisms involved in the inhibition of neuroinflammation by the drug. The effects of artemether on neuroinflammation-mediated HT22 neur

...

Antimalarial Drug Artemether Inhibits Neuroinflammation in ...

Background Nitric oxide (NO) is known to

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be an inhibitor of mitochondrial function. However, the physiological significance of endothelium-derived NO in the control of tissue respiration is not established.

Methods and Results Tissue O₂ consumption by skeletal muscle slices of the triceps brachii of normal dogs was measured with a Clark-type O₂ electrode/tissue bath system at 37°C.

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Nitric Oxide | Circulation

Nitric oxide (nitrogen monoxide) is a molecule and chemical compound with chemical formula of NO . In mammals including humans, nitric oxide is a signaling molecule involved in many physiological and pathological processes. It is a powerful vasodilator

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with a half-life of a few seconds in the blood. Standard pharmaceuticals such as nitroglycerine and amyl nitrite are precursors to nitric oxide.

Biological functions of nitric oxide - Wikipedia

Furthermore, artemisinin inhibits the activation of the transcription factor NF-

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κB and, thereby, nitric oxide synthesis in cytokine-stimulated human astrocytoma T67 cells [44]. ...

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