

oxidative stress and inflammation pdf

Oxidative stress is essentially an imbalance between the production of free radicals and the ability of the body to counteract or detoxify their harmful effects through neutralization by antioxidants.

What is Oxidative Stress? - News-Medical.net

For the past 40 years or so, oxidative stress has been increasingly recognized as a contributing factor in aging and in various forms of pathophysiology generally associated with aging.

Oxidative stress in health and disease: The therapeutic

Highlights • We review recently described knowledge that have been proposed to be involved in NLRP3 inflammasome assembly and activation. • We have updated knowledge on the pyrin domain in NLRP3 that could represent a drug target to treat sterile inflammatory diseases.

NLRP3 inflammasome: From a danger signal sensor to a

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Oxidative Stress in Neurodegenerative Diseases: From

Inflammation (from Latin: inflammatio) is part of the complex biological response of body tissues to harmful stimuli, such as pathogens, damaged cells, or irritants, and is a protective response involving immune cells, blood vessels, and molecular mediators.

Inflammation - Wikipedia

The free radical theory of aging (FRTA) states that organisms age because cells accumulate free radical damage over time. A free radical is any atom or molecule that has a single unpaired electron in an outer shell. While a few free radicals such as melanin are not chemically reactive, most biologically relevant free radicals are highly ...

Free-radical theory of aging - Wikipedia

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Oxidative Medicine and Cellular Longevity - hindawi.com

Metabolism, like other aspects of life, involves tradeoffs. Oxidant by-products of normal metabolism cause extensive damage to DNA, protein, and lipid. We argue that this damage (the same as that produced by radiation) is a major contributor to aging and to degenerative diseases of aging such as

National Academy of Sciences for the USA, oxidative stress

Consumption of polyphenolic-rich beverages (mostly pomegranate and black currant juices) by healthy subjects for a short term increased serum antioxidant status, and the serum's ability to attenuate macrophage cholesterol accumulation

Wonderful Pomegranate Research | All Studies

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