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Oxidative Stress and Redox Regulation. February 2013; DOI: 10.1007/978-94-007-5787-5\_8. In book: Oxidative Stress and Redox Regulation (pp.213-231)

### **(PDF) Oxidative Stress and Redox Regulation**

Introduction. Many physiological conditions such as host defense or aging and pathological conditions such as neurodegenerative diseases, and diabetes are associated with the accumulation of high levels of reactive oxygen species and reactive nitrogen species. This generates a condition called oxidative stress.

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Oxidative Stress and Redox Regulation. Editors: Jakob, Ursula, Reichmann, Dana (Eds.) Free Preview. The first time that experts in the field of redox chemistry, bioinformatics and proteomics, redox signaling and oxidative stress biology have come together to discuss how organisms achieve the appropriate redox balance, the mechanisms that lead to ...

## **Oxidative Stress and Redox Regulation | Ursula Jakob ...**

This chapter defines the terms oxidative stress and oxidative damage, and explains how they can affect cell behaviour: proliferation, adaptation, injury, senescence, intercellular communication, and cell death by apoptosis, necrosis, parthanatos (activation of poly-ADP ribose polymerase), and other mechanisms such as pyroptosis. The role played by reactive species (RS) in apoptosis is detailed.

## **Oxidative stress and redox regulation: adaptation, damage ...**

Oxidative Stress and Redox Regulation. February 2013; DOI: 10.1007/978-94-007-5787-5\_4. In book: Oxidative Stress and Redox Regulation (pp.85-118) Authors: Leslie Poole. 43.48; Wake Forest School ...

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Oxidative stress and redox regulation of gametogenesis, fertilization, and embryonic development Satoshi Tsunoda • Naoko Kimura • Junichi Fujii Received: 8 June 2013/Accepted: 18 September 2013/Published online: 27 September 2013 Japan Society for Reproductive Medicine 2013 Abstract Oxidative stress caused by elevated reactive

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It has recently been demonstrated that IRP2 is subject to redox regulation, in which oxidative stress caused by glucose deprivation in HEK293 cells induced oxidation of Cys-512 and Cys-516 in IRP2 that in turn decreased IRP2 binding to IREs , and decreased IRE binding ability of IRP2 was correlated with decreased transferrin receptor-1 expression that may allow cells to limit iron transport and hindering subsequent iron-mediated ROS production.

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## **Oxidative Stress And Redox Regulation**

Redox regulation and oxidative stress have become areas of major interest in spermatology. Alteration of redox homeostasis is recognized as a significant cause of male factor infertility and is behind the damage that spermatozoa experience after freezing and thawing or conservation in a liquid state. While for a long time, oxidative stress was just considered an overproduction of reactive ...

## **Redox Regulation and Oxidative Stress: The Particular Case ...**

For this book we would like to recruit the experts in the field of redox chemistry, bioinformatics and proteomics, redox signaling and oxidative stress biology to discuss how organisms achieve the appropriate redox balance, the mechanisms that lead to oxidative stress conditions and the physiological consequences that contribute to aging and disease.

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Published: September 2nd 2015. DOI: 10.5772/60806

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According to the extent of oxidation, oxidative stress ranges from mild oxidative stress (also called physiological oxidative eustress) that mediates redox signaling transduction to intense oxidative stress (also called oxidative distress) that damages biomolecules [1,4]. ROS and RNS are the most common oxidants inducing oxidative stress.

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Oxidative stress and redox regulation of NF- $\kappa$ B. Although numerous different pathways are activated during the inflammatory response, NF- $\kappa$ B is thought to be of paramount importance in COPD inflammation because it is activated by all the potentially pathogenic stimuli 5.

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