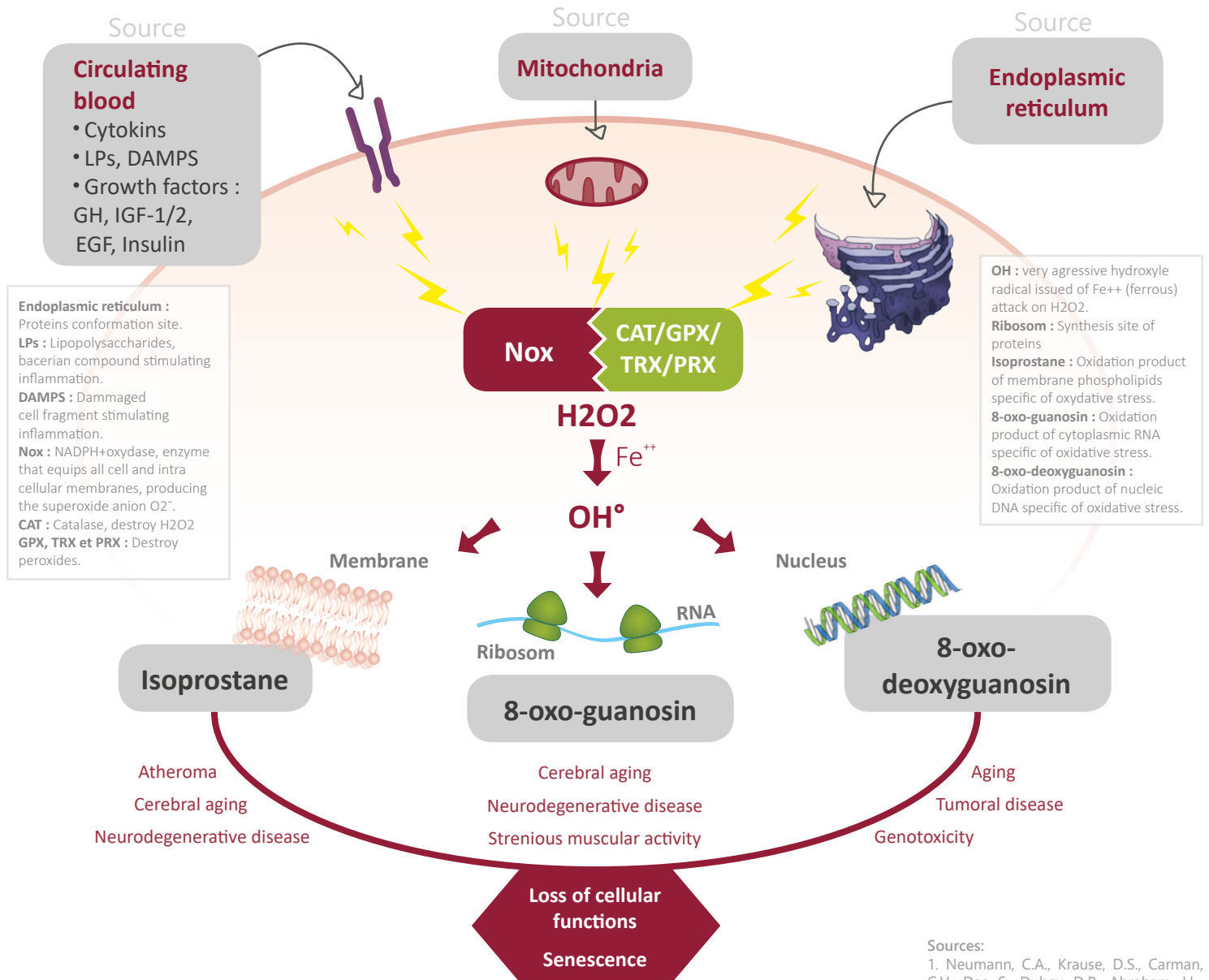


OXYDATIVE STRESS

The source, the target, the disease



Oxidative stress is an excess production of Reactive Oxygen Species that damages cellular structures (DNA, RNA, Membranes) and promotes as well as enhances dangerous cell modes of operations as inflammation, growth, proliferation leading to deviations of the cell physiology or loss of its essential functions.

Oxidative stress contributes to pathogenesis, initiation and evolution of all diseases, especially age linked ones as cardiovascular diseases, neurodegenerative diseases, osteoporosis, cancer, etc.

Determination in urine of the three products of DNA, RNA and membrane oxidation products constitutes a global index of whole body Oxidative Stress status.

■ An increased Oxidative stress in an apparently healthy subject, warn us of an annoying physiological process without clinical signs.

■ If the subject has an age-linked disease, an increase of these indicators represents an evolutivity marker. The treatment doesn't necessarily implicates anti-oxidants but rather changes in lifestyle and hygiene as stopping aggressive treatments, medicines, toxics, tobacco, alcohol, etc. And more importantly caloric restriction and reduced time feeding, sleep reotation, physical exercise and pharmacological agents issued of vegetal world in development.

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