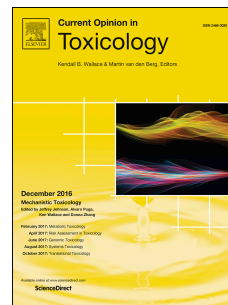


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Review for Themed Issue on Oxidative Toxicology: Role of ROS in Oxidative Stress Biomarkers of nitro-oxidation and oxidative stress

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Biomarkers of nitro-oxidation and oxidative stress

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Abbreviations:

ACR: acrolein

ALE: aldehydic end-products

Cu,Zn-SOD: copper,zinc-superoxide dismutase

DNP: 2,4-dinitrophenylhydrazine DNP

FRR: free radical reaction

4-HNE: trans-4-hydroxy-2-nonenal

HRV: heart rate variability

LO[•] :lipid alkoxyl radical

LOO[•] : lipid peroxy radical

LOOH: lipid hydroperoxide

LPO: lipid peroxidation

MDA: malondialdehyde

(*NO): nitric oxide

N₂O₃: dinitrogen trioxide

nitro-OS: nitro-oxidative stress

NO⁺: nitrosonium ion

Nrf2: Nuclear factor (erythroid-derived 2)-like 2

[•]O₂⁻: superoxide ion

OMP: oxidatively modified protein

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