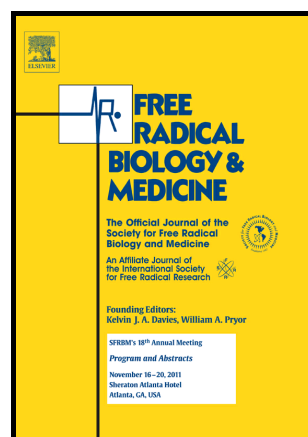


Author's Accepted Manuscript

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www.elsevier.com

PII: S0891-5849(17)31127-9
DOI: <https://doi.org/10.1016/j.freeradbiomed.2017.10.344>
Reference: FRB13485

To appear in: *Free Radical Biology and Medicine*

Received date: 13 June 2017
Revised date: 14 October 2017
Accepted date: 16 October 2017

Cite this article as: Angela M. Casaril, Marta T. Ignasiak, Christine Y. Chuang, Beatriz Vieira, Nathalia B. Padilha, Luke Carroll, Eder J. Lenardão, Lucielli Savegnago and Michael J. Davies, Selenium-containing indolyl compounds: kinetics of reaction with inflammation-associated oxidants and protective effect against oxidation of extracellular matrix proteins, *Free Radical Biology and Medicine*, <https://doi.org/10.1016/j.freeradbiomed.2017.10.344>

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Selenium-containing indolyl compounds: kinetics of reaction with inflammation-associated oxidants and protective effect against oxidation of extracellular matrix proteins

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Abstract

Activated white blood cells generate multiple oxidants in response to invading pathogens. Thus, hypochlorous acid (HOCl) is generated via the reaction of myeloperoxidase (from neutrophils and monocytes) with hydrogen peroxide, and peroxynitrous acid (ONOOH), a potent oxidizing and nitrating agent is formed from superoxide radicals and nitric oxide, generated by stimulated macrophages. Excessive or misplaced production of these oxidants has been linked to multiple human pathologies, including cardiovascular disease.

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