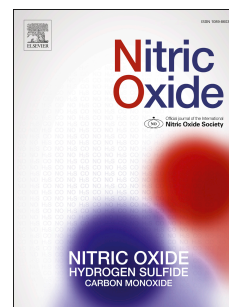


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Title: Nitro-fatty acid Formation and Metabolism

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Abstract

Nitro-fatty acids (NO₂-FA) are pleiotropic modulators of redox signaling pathways. Their effects on inflammatory signaling have been studied in great detail in cell, animal and clinical models primarily using exogenously administered nitro-oleic acid. While we know a great deal about their signaling, endogenous NO₂-FA formation and metabolism is relatively unexplored. This review will cover what is currently known regarding proposed mechanisms of formation, dietary modulation of endogenous NO₂-FA levels, and pathways of metabolism and detection of NO₂FA and corresponding metabolites.

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