

## Accepted Manuscript

Exogenous oxidants activate nuclear factor kappa B through Toll-like receptor 4 stimulation to maintain inflammatory phenotype in macrophage

Yan Zhang, Orisa J. Igwe

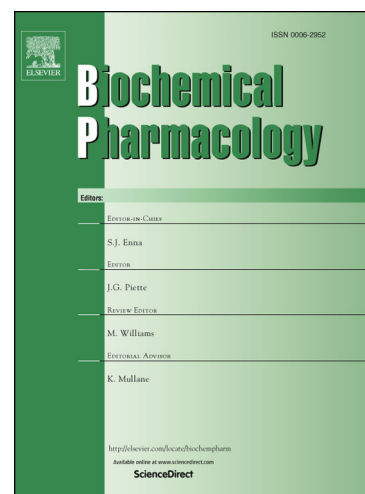
PII: S0006-2952(17)30693-7  
DOI: <https://doi.org/10.1016/j.bcp.2017.11.012>  
Reference: BCP 12957

To appear in: *Biochemical Pharmacology*

Received Date: 20 November 2017  
Accepted Date: 21 November 2017

Please cite this article as: Y. Zhang, O.J. Igwe, Exogenous oxidants activate nuclear factor kappa B through Toll-like receptor 4 stimulation to maintain inflammatory phenotype in macrophage, *Biochemical Pharmacology* (2017), doi: <https://doi.org/10.1016/j.bcp.2017.11.012>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



“REVISED ADDITIONS ARE HIGHLIGHTED IN YELLOW”

Exogenous oxidants activate nuclear factor kappa B through Toll-like receptor 4 stimulation to maintain inflammatory phenotype in macrophage

Authors: Yan Zhang<sup>1</sup>, Orisa J. Igwe<sup>1</sup>

<sup>1</sup>University of Missouri-Kansas City, School of Pharmacy, Division of Pharmacology & Toxicology, 2464 Charlotte Street, Kansas City, Missouri-64108, USA

Email address: Yan Zhang: [yzqh9@mail.umkc.edu](mailto:yzqh9@mail.umkc.edu); Orisa J. Igwe: [igweo@umkc.edu](mailto:igweo@umkc.edu)

Address correspondence to Orisa J. Igwe: [igweo@umkc.edu](mailto:igweo@umkc.edu), 1-(816) - 235-1996

**Abbreviations:** ONS, oxidative/nitrosative stress; TLR, toll-like receptor; MD, myeloid of differentiation; CD, cluster of differentiation; pAb, polyclonal antibody; LPS-EK (Ultrapure), lipopolysaccharide from *E. coli* K12; TLR4-KO macrophages, macrophages derived from complete TLR4 knock-out mice; iTAOC, intracellular total antioxidant capacity; LDH, lactate dehydrogenase; TLR4-WT macrophages, macrophages derived from wild-type mice; pM, primary peritoneal macrophages; PPC, potassium peroxychromate; SEAP, secreted embryonic alkaline phosphatase; FBS, fetal bovine serum; DMEM, Dulbecco's modified Eagle's medium; ANOVA, analysis of variance; MTT, (3-[4,5-dimethylthiazol-2-yl]-2,5-diphenyltetrazolium bromide; TBARS, thiobarbituric acid reacting substances; MDA, malonyldialdehyde; NF- $\kappa$ B, nuclear factor kappa B; iROS, intracellular reactive oxygen species; TNF- $\alpha$ , tumor necrosis factor alpha; ELISA, enzyme-linked immuno-sorbent assay.

Download English Version:

<https://daneshyari.com/en/article/8524404>

Download Persian Version:

<https://daneshyari.com/article/8524404>

[Daneshyari.com](https://daneshyari.com)