

Supplementary data 1:

Cell viability evaluation of HL-60 in response to varying concentrations of **(A)** ATRA, **(B)** PMA, **(C)** LPS and **(D)** absence of CD14 expression markers confirms the neutrophil characteristic nature of differentiated HL-60 cells. Values are expressed as mean (A, B, C) \pm SD calculated from independent experiments; the results obtained were statistically significant (****P \leq 0.0001).

Supplementary data 2:

(A) CD-63 blots and **(B)** MPO blots used for confirming the inflammatory status of neutrophils

Supplementary data 3:

Blots used for analysis of Histone H3.3 expression in the present study.

Supplementary data 4:

Blot used for evaluation of LOX5 expression in response to **(A)** PMA and **(B)** LPS stimulation.

Supplementary data 5:

Blot used for evaluation of NOX4 expression in response to **(A)** PMA and **(B)** LPS stimulation.

Supplementary data 6:

Blot used for evaluation of NOX4 expression in response to **(A)** PMA and **(B)** LPS stimulation.

Supplementary data 7:

β -actin control blots used for quantification of CD63, LOX5, NOX4 and NOX2