

## *Abbreviations and conventional signs*

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$\alpha$	Alpha
&	And
ABAH	4-Aminobenzoic acid hydrazide
AML	Acute myeloid leukemia
ATP	Adenosine triphosphate
ANOVA	Analysis of variance
$\beta$	Beta
BCA	Bicinchoninic acid
BMC	Bone marrow cells
$\beta$ ME	$\beta$ Mercaptoethanol
BH <sub>4</sub>	Tetrahydrobiopterin
bp	Base Pairs
BSA	Bovine serum albumin
<sup>o</sup> C	Degree Celsius
Ca <sup>2+</sup>	Calcium ion
CaCl <sub>2</sub>	Calcium chloride
cAMP	Cyclic adenosine monophosphate
CGD	Chronic granulomatous disease
cGMP	Cyclic guanosine monophosphate
CML	Chronic myeloid leukemia
CaM	Calmodulin
CD	Cluster differentiation marker
cm	Centimeters
DAF-2DA	Diaminofluorescein diacetate
DEPC	Diethyl pyro carbonate
DNA	Deoxyribonucleic acid
DTT	Dithiothreitol
DCF-DA	Dichlorodihydrofluorescein diacetate
DFP	Diisopropylfluorophosphate
$\Delta$ , $\delta$	Delta
\$	Dollar

## Abbreviations and conventional signs

DMSO	Dimethyl sulfoxide
DPI	Diphenyleneiodonium chloride
ECL	Enhanced Chemiluminescence
e.g.	For example
eNOS	Endothelial nitric oxide synthetase
$\epsilon$	Epsilon
ERK	Extracellular signal regulated kinase
<i>et al.</i>	and others
EDTA	Ethylenediamine tetra acetic acid
EGTA	Ethylene glycol-bis (Beta-aminoethyl ether)-N, N, N’N- tetra acetic acid
EMSA	Electrophoretic mobility shift assays
FITC	Fluorescein isothiocyanate
fMLP	N-Formyl-Met-Leu-Phe
FMN	Flavin mononucleotide
FSC	Forward angle light scatter
$\gamma$	Gamma
FAD	Flavin adenine dinucleotide
FACS	Flourescence activated cell sorter
GAPDH	Glyceraldehyde 3 phoshate dehydrogenase
HBSS	Hank’s balanced salt solution components
HEPES	N-2-hydroxyethylpiperazine-N’-2-ethanesulfonic acid
HRP	Horse radish peroxidase
h	Hour
HOCl	Hypochlorous acid
H <sub>2</sub> O <sub>2</sub>	Hydrogen peroxide
HSC	Hematopoietic stem cell
iNOS	Inducible nitric oxide synthase
IF	Impact factor
IP	Immuno-precipitation

## Abbreviations and conventional signs

IFN- $\gamma$	Interferon gamma
IgG	Immunoglobulin G
IL-1 $\beta$	Interleukin 1 beta
JNK	c-jun N-terminal kinase
K <sup>+</sup>	Potassium ion
KCl	Potassium chloride
kDa	Kilo Dalton
L-NAME	N <sup>o</sup> -Nitro-L-arginine methyl ester
LPS	Lipopolysaccharide
$\lambda$	Lambda (Wave length)
M	Molar
MAPK	Mitogen activated protein kinase
MBs	Myeloblasts
MCs	Myelocytes
$\mu$	Micro
$\mu$ l	Microliters
$\mu$ mol	Micromole
$\mu$ M	Micromolar
$\mu$ g	Microgram
MPO	Myeloperoxidase
mg	Milligram
MgCl <sub>2</sub>	Magnesium chloride
ml	Milliliter
mM	Millimolar
min	Minute
MMs	Metamyelocytes
mV	Mili volt
MOPS	3-N-Morpholine propane sulphonic acid
NOS	Nitric oxide synthase
nNOS	Neuronal nitric oxide synthase
NO	Nitric oxide

## Abbreviations and conventional signs

NAC	N-acetyl cysteine
NADH	Nicotinamide adenine dinucleotide reduced
NADPH	Nicotinamide adenine dinucleotide phosphate reduced
NaF	Sodium fluoride
NaNO <sub>2</sub>	Sodium nitrite
nM	Nanomolar
NO	Nitric oxide
NO <sub>2</sub> <sup>-</sup>	Nitrite ion
NO <sub>3</sub>	Nitrate
NO <sub>2</sub> Cl	Nitryl chloride
NOX	NADPH oxidase
O <sub>2</sub> <sup>-</sup>	Superoxide radical
OH <sup>-</sup>	Hydroxyl radical
ONOO <sup>-</sup>	Peroxynitrite ion
PBS	Phosphate buffered saline
PCR	Polymerase chain reaction
PD	Parkinson's disease
PI	Propidium iodide
PMA	Phorbol 12-myristate 13-acetate
PMNs	Polymorphonuclear leukocytes
PPP	Platelet poor plasma
PRP	Platelet rich plasma
PAGE	Polyacrylamide gel electrophoresis
PE	Phycoerythrin
%	Percentage
PFA	Paraformaldehyde
PHOX	Phagocyte oxidase
PMs	Promyelocytes
PMSF	Phenylmethane sulfonylfluoride
RNI	Reactive nitrogen intermediate

## Abbreviations and conventional signs

RNS	Reactive nitrogen species
ROS	Reactive Oxygen Species
r.p.m	Revolutions per minute
RBC	Red blood corpuscles
RNA	Ribonucleic acid
RT	Room temperature
RT-PCR	Reverse transcriptase-polymerase chain reaction
SNAP	S-nitroso-N-acetylpenicillamine
S	Cysteine thiol
SDS	Sodium dodecyl sulphate
S.E.	Standard error
S.E.M.	Standard error of mean
S-NO	Nitrosocysteine
<	Smaller than
SSC	Side angle light scatter
*	Star
TEMED	N,N,N',N'-Tetramethylethylenediamine
TLR	Toll like receptor
TRIS buffer	Tris(hydroxymethyl)aminomethane
TNF- $\alpha$	Tumor necrosis factor alpha
U	Units
v/v	volume/volume
1400W	N-(3-Aminomethyl)benzylacetamidine
w/v	weight/volume
WBCs	White blood cells