

LIST OF ABBREVIATIONS

AF-SWCNT	acid-functionalized single-walled carbon nanotubes
AP-1	activator protein 1
ApoE	apolipoprotein E
BALF	bronchoalveolar lavage fluid
BET	Brunauer–Emmett–Teller
BSI	British Standards Institution
bw	body weight
CCSP	Clara cell secretory protein
CGRP	calcitonin gene-related peptide
CI	confidence interval
CNF	carbon nanofibre
CNM	carbon-based nanomaterial
CNT	carbon nanotubes
COX-2	cyclooxygenase
CVD	chemical vapour deposition
dG	deoxyguanosine
DWCNT	double-walled carbon nanotubes
EC	elemental carbon
EC ₅₀	concentration resulting in 50% survival
EDX	energy dispersive X-ray analyser
ENDOIII	endonuclease III
EPO	eosinophil peroxidase
ESR	electronic spin resonance
F-MWCNT	carboxylic acid-functionalized multiwalled carbon nanotubes
FPG	formamidopyrimidine glycosylase
GM	geometric mean
GPx	glutathione peroxidase
GSD	geometric standard deviation
GSH	glutathione
HDM	house dust mites
HiPCO	high-pressure carbon monoxide
IFN	interferon
Ig	immunoglobulin
IL	interleukin

ISO	International Organization of Standardization
LDH	lactate dehydrogenase
LPS	lipopolysaccharide
MAPK	mitogen-activated protein kinase
MC	methylcholanthrene
MDA	malondialdehyde
MMAD	mass median aerodynamic diameter
MPO	myeloperoxidase
MPPD	multiple-path particle dosimetry
MWCNT	multiwalled carbon nanotubes
NAC	<i>N</i> -acetyl cysteine
NADPH	nicotinamide adenine dinucleotide phosphate
NF- κ B	nuclear factor kappa B
NIOSH	National Institute for Occupational Safety and Health
O-MWCNT	original multiwalled carbon nanotubes
OEL	occupational exposure limit
OVA	ovalbumin
8-oxodG	8-oxodeoxyguanosine
P/B	process to background ratio
PBS	phosphate-buffered saline
PBZ	personal breathing zone
PCOM	phase-contrast optical microscope
PDGF	platelet-derived growth factor
PEG	polyethylene glycol
PGE2	prostaglandin
PLC	phospholipase C
P-MWCNT	purified multiwalled carbon nanotubes
PPAR γ	peroxisome proliferator-activated receptor gamma
qRT-PCR	quantitative real-time polymerase chain reaction
ROS	reactive oxygen species
RT-PCR	reverse transcriptase-polymerase chain reaction
SD	standard deviation
SEM	scanning electron microscopy
SENTIERI	Epidemiological Study of Residents in National Priority Contaminated Sites
SIR	standardized incidence ratio
Smad	mothers against decapentaplegic homologue
SMR	standardized mortality ratio
SOD	superoxide dismutase
SP	surfactant protein
SWCNT	single-walled carbon nanotubes
TEM	transmission electron microscopy
TGF	transforming growth factor
Th	T helper
TNF	tumour necrosis factor
TTF	thyroid transcription factor
TWA	time-weighted average
VEGF	vascular endothelial growth factor