

LIST OF ABBREVIATIONS USED IN THIS VOLUME

8-OHdG: 8-hydroxydeoxyguanosine
AAS: atomic absorption spectrometry
AFS: atomic fluorescence spectrometry
ALA: δ -aminolevulinic acid
ALAD: δ -aminolevulinic acid dehydratase
ATPases: adenosinetriphosphatases
AUC: area under the curve
BALF: bronchoalveolar lavage fluid
BEI: biological exposure index
CI: confidence interval
Co-FAP: cobalt-labelled fused aluminosilicate
D₅₀: median diameter
DMA: dimethylarsinic acid
DMPO: 5,5-dimethyl-1-pyrroline *N*-oxide
ECP: eosinophilic cationic protein
EDTA: ethylenediaminetetraacetic acid
ERK-1/2: extracellular signal-regulated kinases 1 and 2
ESR: electron spin resonance
F-AAS: flame atomic absorption spectrometry
FPG: formamido-pyrimidine DNA glycosylase
G6PD: glucose-6-phosphate dehydrogenase
GF-AAS: graphite furnace atomic absorption spectrometry
GIP: giant-cell interstitial pneumonia
GSD: geometric standard deviation
GSH: glutathione
HB: horizontal Bridgeman
HB-EGF: heparin-binding epidermal growth factor
HFC: high-frequency cell
HIP: hot isostatic pressing
HPLC: high-performance liquid chromatography
HSE: heat shock element
IC: integrated circuit
ICP-AAS: inductively coupled atomic absorption spectrometry
ICP-MS: inductively coupled plasma mass spectrometry
IDMS: isotope dilution mass spectrometry

IEC: ion-exchange chromatography
IL-1: interleukin-1
IL-6: interleukin-6
IL-8: interleukin-8
INAA: instrumental neutron activation analysis
LDH: lactate dehydrogenase
LED: light-emitting diode
MIP-2: mitogen-activated protein
MMAD: mass median aerodynamic diameter
MMA^{III}: monomethylarsonous acid
MMA^V: monomethylarsonic acid
MMS: methyl methanesulfonate
MOCVD: metal-organic chemical vapour deposition
MPO: myeloperoxidase
MRE: metal response element
MTT: dimethylthiazol diphenyl tetrazolium
NAA: neutron activation analysis
PBMC: peripheral blood mononucleated cells
PGE₂: prostaglandin E₂
PM₁₀: particulate matter with aerodynamic diameter $\leq 10 \mu\text{m}$
RNAA: radiochemical neutron activation analysis
ROS: reactive oxygen species
SHE: Syrian hamster embryo
SI: semi-insulating
SIR: standardized incidence ratio
SMR: standardized mortality ratio
SOD: superoxide dismutase
SRR: standardized registration ratio
T_{1/2}: half-life
TGF- β 1: transforming growth factor β 1
TLV: threshold limit value
TNF α : tumour necrosis factor α
UV: ultraviolet