

## **LIST OF ABBREVIATIONS**

8-OHdG	8-hydroxy-2'-deoxyguanosine		
8-oxodGuo	8-oxo-7,8-dihydro-2'-deoxyguanosine		
ABS	acrylonitrile-butadiene-styrene		
AC50	concentration for half-maximal activity		
AhR	aryl hydrocarbon receptor		
ALL	acute lymphoblastic/lymphocytic leukaemia		
AML	acute myeloid leukaemia		
AR	androgen receptor		
BALF	bronchioloalveolar lavage fluid		
BrdU	bromodeoxyuridine		
BSO	buthionine sulfoximine		
bw	body weight		
CAS	Chemical Abstracts Service		
CI	confidence interval		
CLL	chronic lymphocytic leukaemia		
CML	chronic myeloid leukaemia		
CYP	cytochrome P450		
DAD	diode array detection		
DEG	differentially expressed gene		
DMDTC	dimethyldithiocarbamate		
DMSO	dimethylsulfoxide		
EPA	United States Environmental Protection Agency		
EPA	expandable polystyrene		
ER	estrogen receptor		
FCM	food-contact material		
FD	fluorescence detector		
FDA	United States Food and Drug Administration		
FID	flame ionization detector		
Fpg	formamido pyrimidine glycosylase		
FT3	free triiodothyronine		
FT4	free thyroxine		
GC	gas chromatography		
GC×GC	two-dimensional gas chromatography		

GLP	good laboratory practice		
GM	geometric mean		
GSH	· ·		
	glutathione		
GSSG	oxidized glutathione		
GST	glutathione S-transferase		
HL	Hodgkin lymphoma		
HLA-G	human leukocyte antigen G		
HPLC	high-performance liquid chromatography		
HPRT	hypoxanthine-guanine phosphoribosyl transferase		
HR	hazard ratio		
IARC	International Agency for Research on Cancer		
JEM	job-exposure matrix		
LALN	lung-associated lymph node		
LC	liquid chromatography		
L-NAC	L-N-acetylcysteine		
LOD	limit of detection		
LOQ	limit of quantitation		
LPO	lipid peroxidation		
LPS	lipopolysaccharide		
LSE	low styrene emission		
M1	N-acetyl-S-(1-phenyl-2-hydroxyethyl)-L-cysteine		
M2	N-acetyl-S-(2-phenyl-2-hydroxyethyl)-L-cysteine		
MA	mandelic acid		
MDA	malondialdehyde		
MEF	murine embryonic fibroblast		
MM	multiple myeloma		
MN	micronucleus		
MNCPES	Minnesota Children's Pesticide Exposure Study		
MS	mass spectrometry		
MS/MS	tandem mass spectrometry		
Ν3αΑ	3-(2-hydroxy-1-phenylethyl)adenine		
Ν3βΑ	3-(2-hydroxy-2-phenylethyl)adenine		
NAC	N-acetylcysteine		
NHANES	United States National Health and Nutrition Examination Survey		
NHL	non-Hodgkin lymphoma		
NIOSH	United States National Institute for Occupational Safety and Health		
NK	natural killer		
NSA	non-Swiss albino		
NVS	NovaScreen		
OR	odds ratio		
PAC	polycyclic aromatic compounds		
PAH	polycyclic aromatic hydrocarbon		
PFC	plaque-forming cell		
PGA	phenylglyoxylic acid		
$PGE_2$	prostaglandin E <sub>2</sub>		
$PGF_{2\alpha}$	prostaglandin $F_{2\alpha}$		
PHEMA	phenylhydroxyethylmercapturic acid		
$PM_{2.5}$	airborne particulate matter of diameter less than 2.5 μm		
ppb	parts per billion		
ppm	parts per million		

PS	polystyrene
PT	purge-and-trap
QC	quality control
ROS	reactive oxygen species
RR	relative risk
RSD	relative standard deviation
SAN	styrene-acrylonitrile
SBL	styrene-butadiene latex
SBR	styrene-butadiene rubber
sHLA-G	soluble human leukocyte antigen G
SIM	selected ion monitoring
SIR	standardized incidence ratio
SMR	standardized mortality ratio
SOD	superoxide dismutase
SPE	solid-phase extraction
Tox21	Toxicity Testing in the 21st Century
ToxCast	Toxicity Forecaster
TPA	12-O-tetradecanoylphorbol-13-acetate
TRH	thyrotrophin-releasing hormone
TSH	thyroid-stimulating hormone
TWA	time-weighted average
UPR	unsaturated polyester resins
UV	ultraviolet
VOC	volatile organic carbon