

LIST OF ABBREVIATIONS

%DNA	percentage DNA in tail
•OH	hydroxyl radical
3-MC	3-methylcholanthrene
8-OH-dG	8-hydroxy-2'-deoxyguanosine
8-oxodGuo	8-oxo-7,8-dihydro-2'-deoxyguanosine
ACGIH	American Conference of Governmental Industrial Hygienists
Al	aluminium
ALL	acute lymphoblastic leukaemia
AM	alveolar macrophage
AML	acute myeloid leukaemia
ApoJ	apolipoprotein J
Ar	argon
BALF	bronchoalveolar lavage fluid
BALT	bronchus-associated lymphoid tissue
Be	beryllium
Ca	calcium
CaCrO ₄	calcium chromate
CANJEM	Canadian job-exposure matrix
Cd	cadmium
CFU	colony-forming unit
CHMS	Canadian Health Measures Survey
CI	confidence interval
CLL	chronic lymphocytic leukaemia
CLU	clusterin
CO	carbon monoxide
Co	cobalt
Cr	chromium
Cr(VI)	hexavalent chromium
CRP	C-reactive protein
Cu	copper
dGuo	deoxyguanosine
DLBCL	diffuse large B-cell lymphoma
ECRHS	European Community Respiratory Follow-up Survey

ELF-EMF	extremely low frequency electromagnetic fields
EPIC	European Prospective Investigation into Cancer and Nutrition
ER	electric resistance
FCA	flux-cored arc
Fe	iron
Fe ₂ O ₃	iron oxide
FINJEM	Finnish job-exposure matrix
FSH	follicle-stimulating hormone
GLP	good laboratory practice
GMA	gas metal arc
GPX	glutathione peroxidase
GSH	glutathione
GTA	gas tungsten arc
H ₂ O ₂	hydrogen peroxide
He	helium
HR	hazard ratio
HRV	heart rate variability
HS	hard-surfacing
IARC	International Agency for Research on Cancer
ICARE	Investigation of Occupational and Environmental Causes of Respiratory Cancers
ICNIRP	International Commission on Non-Ionizing Radiation Protection
ICP	inductively coupled plasma
IEC	International Electrochemical Commission
IFN γ	interferon gamma
IgA	immunoglobulin A
IgM	immunoglobulin M
IL	interleukin
In	indium
In ₂ O ₃	indium tin oxide
iNOS	inducible nitrite oxide synthase
IPUMS	Integrated Public Use Microdata Series
ISO	International Organization for Standardization
ITO	indium tin oxide
JEM	job-exposure matrix
JSOH	Japan Society for Occupational Health
KL-6	Krebs von den Lungen-6
LALN	lung-associated lymph node
LDH	lactate dehydrogenase
LH	luteinizing hormone
LINE-1	long interspersed nuclear element-1
LOD	limit of detection
LPS	lipopolysaccharide
MAG	metal active gas
MAPP	methylacetylene-propadiene
MDA	malondialdehyde
Mg	magnesium
MIG	metal inert gas
MLN	mediastinal lymph node
MMA	manual metal arc
Mn	manganese

MN	micronucleus
MnSOD	manganese superoxide dismutase
Mo	molybdenum
MoO ₃	molybdenum trioxide
MOR	mortality odds ratio
MoS ₂	molybdenum (IV) sulfide
MS	mild steel
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
N	nitrogen
β-NAG	β-N-acetyl-glucosaminidase
NFκB	nuclear factor kappa-light-chain-enhancer of activated B cells
NHANES	United States National Health and Nutrition Examination Survey
NHL	non-Hodgkin lymphoma
Ni	nickel
NIOSH	United States National Institute for Occupational Safety and Health
NLRP3	NACHT, LRR and PYD domains-containing protein 3
NLST	National Lung Screening Trial
NO	nitric oxide
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NP	nanoparticle
O	oxygen
O ₃	ozone
OR	odds ratio
PAFR	platelet-activating factor receptor
PAH	polycyclic aromatic hydrocarbon
PAPR	powered air-purifying respirator
Pb	lead
PBMC	peripheral blood mononuclear cell
PM _{2.5}	particulate matter of diameter < 2.5 μm
PM ₄	particulate matter of diameter < 4 μm
PMN	polymorphonuclear leukocytes
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
ROS	reactive oxygen species
RR	relative risk
SA	submerged arc
SAA	serum amyloid A
SIR	standardized incidence ratio
SITO	sintered indium tin oxide
SLL	small lymphocytic lymphoma
SMR	standardized mortality ratio
SnO ₂	stannic oxide
SOD	superoxide dismutase
SP	surfactant protein
SRBC	sheep red blood cell
SS	stainless steel
TCC	transitional cell carcinoma
TCE	trichloroethylene
Th	thorium
TIG	tungsten inert gas

TiO ₂	titanium dioxide
TIP	total inhalable particulate
TNF α	tumour necrosis factor alpha
TRH	TSH-releasing hormone
TSH	thyroid-stimulating hormone
TWA	time-weighted average
UFP	ultrafine particles
UV	ultraviolet
<i>VHL</i>	von Hippel–Lindau tumour suppressor
vs	versus
wt%	percentage by weight
Zn	zinc