Acronyms and Abbreviations

A	adenine
AA	aristolochic acid
AAN	aristolochic acid nephropathy
ACGIH	American Conference of Governmental Industrial
noun	Hygienists
ADH	alcohol dehydrogenase
AIDS	acquired immunodeficiency syndrome
ALT	alanine transaminase
ANSI	American National Standards Institute
AP1	activator protein 1
AST	American Society of Transplantation
ATLL	adult T-cell leukemia/lymphoma
ATSDR	Agency for Toxic Substances and Disease Registry
BEI	biological exposure index
BEN	Balkan endemic nephropathy
BOP	Bureau of Prisons
BRCA	breast cancer susceptibility proteins
b.w.	body weight
С	cytosine
cART	combined antiretroviral therapy
CAS	Chemical Abstracts Service
CAS No.	Chemical Abstracts Service Registry number
CDC	Centers for Disease Control and Prevention
CFR	Code of Federal Regulations
CHO	Chinese hamster ovary
CI	confidence interval
CIN	cervical intraepithelial neoplasia
C.I.	Colour Index
CoCrMo	cobalt-chromium-molybdenum
COX	cyclooxygenase
CPSC	Consumer Product Safety Commission
СҮР	cytochrome P450
2,4-D	2,4-dichlorophenoxyacetic acid
dA-AAI	7-(deoxyadenosin-N6-yl)-aristolactam I
dA-AAII	7-(deoxyadenosin-N6-yl)-aristolactam II
DDD	1,1-dichloro-2,2-bis(<i>p</i> -chlorophenyl)ethane
DDE	1,1-dichloro-2,2-bis(<i>p</i> -chlorophenyl)ethylene
DDT	dichlorodiphenyltrichloroethane
dec	decomposes
dG	deoxyguanosine
dG-AAI	7-(deoxyguanosin-N2-yl)-aristolactam I
dG-AAII	7-(deoxyguanosin- <i>N</i> 2-yl)-aristolactam II
DHHS	Department of Health and Human Services
DHP DHS	dihydropyrrolizine Department of Homeland Security
DMDTC	dimethyldithiocarbamate
DNIDIC	deoxyribonucleic acid
DNase	deoxyribonuclease
DNUSC	dinitrotoluene
DOE	Department of Energy
DoD	Department of Defense
DOD	Department of Transportation
DVA	Department of Veterans Affairs
EBNA	Epstein-Barr nuclear antigen
EBV	Epstein-Barr virus
ed.	edition, editor(s)
EPA	Environmental Protection Agency, United States
F344	Fischer 344 (rats)
FANC	Fanconi anemia complementation group proteins
FDA	Food and Drug Administration, United States

G	
G	guanine
GST D	glutathione S-transferase
GST-P+	glutathione S-transferase placental form positive
GSTT1	glutathione S-transferase theta 1
h HAART	hour(s)
HAM/TSP	highly active antiretroviral therapy
FIANI/15P	HTLV-1-associated myelopathy/tropical spastic paraparesis
HBeAg	hepatitis B e antigen
HBsAg	hepatitis B surface antigen
HBV	hepatitis B virus
HBZ	HTLV-1 basic leucine zipper factor
HCA	heterocyclic amine
HCT/Ps	human cells, tissues, and cellular and tissue-based
	products
HCV	hepatitis C virus
HHE	Health Hazard Evaluation
HHV	human herpesvirus
HHS	Health and Human Services
HIF-1α	hypoxia-inducible factor 1 alpha
HIV	human immunodeficiency virus
HIVMA	HIV Medicine Association
HpCDD	heptachlorodibenzo- <i>p</i> -dioxin
HPLC	high performance liquid chromatography
HPV	human papillomavirus Health Resources and Services Administration
HRSA HTLV-1	human T-cell lymphotropic virus type 1
HUD	Housing and Urban Development
HxCDD	hexachlorodibenzo- <i>p</i> -dioxin
IARC	International Agency for Research on Cancer
IDLH	immediately dangerous to life and health
IDSA	Infectious Diseases Society of America
IgG	immunoglobulin G
IL	interleukin
IRIS	Integrated Risk Information System
ISO	International Organization for Standardization
JAK/STAT	Janus kinase/signal transducers and activators of
IM	transcription Johns Manville
JM K	dissolution rate
$K_{ m dis}$ $K_{ m ow}$	octanol-water partition coefficient
KSHV	Kaposi sarcoma–associated herpesvirus
LET	linear energy transfer
LMP	latent membrane protein
LT	large T antigen
MAP	mitogen-activated protein
MCA 38	murine colon adenocarcinoma cell line
MCL	maximum contaminant level
MCPyV	Merkel cell polyomavirus
MCV	Merkel cell polyomavirus
min	minute(s)
MMVF	man-made (or machine-made) vitreous fibers
mol wt mRR	molecular weight meta–relative risk
N/A	not applicable
	National Advisory Committee for Acute Exposure
	Guideline Levels for Hazardous Substances
NADPH	nicotinamide adenine dinucleotide phosphate,
	reduced form
NAICS	North American Industrial Classification System
NCI	National Cancer Institute
ND	not detected

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NextGen	Advancing the Next Generation of Risk Assessment
NF	nuclear factor
NF-ĸB	nuclear factor kappa-light-chain-enhancer of
	activated B cells
NHANES	National Health and Nutrition Examination Survey
NHL	non-Hodgkin lymphoma
NIEHS	National Institute of Environmental Health Sciences
NIH	National Institutes of Health
NIOSH	National Institute for Occupational Safety and Health
NK	natural killer
NNK NNN	4-(<i>N</i> -nitrosomethylamino)-1-(3-pyridyl)-1-butanone <i>N</i> -nitrosonornicotine
NNN No.	_
1101	number National Occupational Hazard Survey
NOHS NR	National Occupational Hazard Survey
NRC	not reported
Nrf2	Nuclear Regulatory Commission nuclear respiratory factor 2
NTP	National Toxicology Program
OCDD	octachlorodibenzo- <i>p</i> -dioxin
OCDD OPTN	Organ Procurement and Transplantation Network
OR	odds ratio
OSHA	Occupational Safety and Health Administration
PAH	polycyclic aromatic hydrocarbon
PCDD	polychlorinated dibenzodioxin
PCDF	polychlorinated dibenzofuran
PCP	pentachlorophenol
PCR	polymerase chain reaction
PEL	permissible exposure limit
PHS	Public Health Service
PI3	phosphoinositide 3
pK_{b}	dissociation constant
PVC	polyvinyl chloride
r	correlation coefficient
r^2	coefficient of determination
R-DHP	<i>R</i> -dihydropyrrolizine
REL	recommended exposure limit
RfC	inhalation reference concentration
RfD	oral reference dose
RNA	ribonucleic acid
RoC	Report on Carcinogens
ROS	reactive oxygen species
RQ	reportable quantity
RR	relative risk (risk ratio or rate ratio)
S	second
S&S	Schleicher & Schuell
S-DHP	<i>S</i> -dihydropyrrolizine
SIR	standardized incidence ratio
SMR	standardized mortality ratio
spp.	species (plural)
ssRNA	single-stranded RNA
sТ	small T antigen
STEL	short-term exposure limit
suppl.	supplement
Т	thymine
TCBQ	tetrachlorobenzoquinone
TCDD	tetrachlorodibenzo- <i>p</i> -dioxin
TCE	trichloroethylene
TCHQ	tetrachlorohydroquinone
TCLP	toxicity characteristic leaching procedure
TLV	threshold-limit value
TNT	trinitrotoluene
Tox21	Toxicology in the 21st Century

TPQ	threshold planning quantity
TRI	Toxics Release Inventory
TSCA	Toxic Substances Control Act
TSNA	tobacco-specific nitrosamine(s)
TURA	Toxics Use Reduction Act
TWA	time-weighted average
USAI	United States of America Standards Institute
USDA	United States Department of Agriculture
UV	ultraviolet
UVR	ultraviolet radiation
VCA	viral capsid antigen
VOC	volatile organic chemical
vol.	volume
v/v	volume-volume ratio
WC	tungsten carbide
WHO	World Health Organization
wt.	weight

wt. weigl yr year