

## LIST OF ABBREVIATIONS

ADH	alcohol dehydrogenase
AEAT	acyl-coenzyme A:ethanol <i>O</i> -acyltransferase
ALDH	aldehyde dehydrogenase
ALT	alanine aminotransferase
AST	aspartate aminotransferase, aspartate transaminase
AUC	area under the curve
bw	body weight
C/EBP	CCAAT enhancer-binding protein
CI	confidence interval
CoA	coenzyme A
CYP	cytochrome-P450
Dio-dG	<i>N</i> <sup>2</sup> -(2,6-dimethyl-1,3-dioxan-4-yl)-2'-deoxyguanosine
DMBA	7,12-dimethylbenz[ <i>a</i> ]anthracene
DMH	1,2-dimethylhydrazine
DMSO	dimethyl sulfoxide
EDTA	ethylene diamine tetraacetic acid
EPIC	European Prospective Investigation of Nutrition and Cancer
EtdG	<i>N</i> <sup>2</sup> -ethyl deoxyguanosine
EtidG	<i>N</i> <sup>2</sup> -ethylidene-2'-deoxyguanosine
FAEE	fatty acid ethyl ester
FAEES	fatty acid ethyl ester synthase
FAO	Food and Agricultural Organization
FAS	fetal alcohol syndrome
GC	gas chromatography
GEO	Gene Expression Omnibus
GRAS	generally recognized as safe
GSH	glutathione (reduced form)
GST	glutathione <i>S</i> -transferase
γGT	γ-glutamyl transferase
HBV	hepatitis B virus

HCC	hepatocellular carcinoma
HCV	hepatitis C virus
HDL	high-density lipoprotein
HNF	hepatocyte nuclear factor
HPV	human papilloma virus
ICD	International Classification of Diseases
Ig	immunoglobulin
IGF	insulin-like growth factor
IL	interleukin
$K_m$	Michaelis constant
LDC	Lieber-DiCarli
MAPK	mitogen-activated protein kinase
3-MCPD	3-monochloropropane-1,2-diol
MCV	mean corpuscular volume
Me- $\gamma$ -OH-PdG	$\alpha$ -methyl- $\gamma$ -hydroxyl-1, $N^2$ -propano-2'-deoxyguanosine
MeDAB	3'-methyl-4-dimethylaminobenzene
MeIQ <sub>x</sub>	2-amino-3,8-dimethylimidazo[4,5- <i>f</i> ]quinoline
MGMT	$O^6$ -methylguanine methyltransferase
MNNG	<i>N</i> -methyl- <i>N'</i> -nitro- <i>N</i> -nitrosoguanidine
MNU	<i>N</i> -methyl- <i>N</i> -nitrosourea
MS	mass spectrometry
MTHFR	methylenetetrahydrofolate reductase
MTR	5-methyltetrahydrofolate-homocysteine <i>S</i> -methyltransferase, methionine synthase
NAD <sup>+</sup>	nicotinamide adenine dinucleotide
NADH	nicotinamide adenine dinucleotide (reduced form)
NADPH	nicotinamide adenine dinucleotide phosphate (reduced form)
NDEA	<i>N</i> -nitrosodiethylamine
NDMA	<i>N</i> -nitrosodimethylamine
NDPA	<i>N</i> -nitrosodi- <i>n</i> -propylamine
NF	nuclear factor
NF-Y/CP	nuclear factor-Y/CCAAT protein
NMBzA	<i>N</i> -nitrosomethylbenzylamine
NNK	4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone
NNN	<i>N'</i> -nitrosornicotine
NPC	nasopharyngeal carcinoma
NPYR	<i>N</i> -nitrosopyrrolidine
OGG	8-oxoguanine DNA glycosylase

PAH	polycyclic aromatic hydrocarbon
SCC	squamous-cell carcinoma
SCLC	small-cell lung cancer
SD	standard deviation
SE	standard error
SHBG	sex hormone-binding globulin
SIR	standardized incidence ratio
SITC	Standard International Trade Classification
SKF-525A	2-diaminoethyl-2,2-diphenylpentanoate hydrochloride
SMR	standardized mortality ratio
SREPB	sterol regulatory element-binding protein
TEN	total enteric nutrition
TPA	12- <i>O</i> -tetradecanoylphorbol-13 acetate
TS	thymidylate synthase
$V_{\max}$	maximum velocity
% vol	percentage by volume
XP	<i>xeroderma pigmentosum</i>
XRCC	X-ray repair cross-complementing