

# LIST OF ABBREVIATIONS

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4-HNE	4-hydroxynonenal
8-OHdG	8-hydroxy-2'-deoxyguanosine
AARP	American Association of Retired Persons
ACF	aberrant crypt foci
ADI	acceptable daily intake
AGEP	advanced glycation end product
AHS	Agricultural Health Study
AIN	American Institute of Nutrition
AOCS	Australian Ovarian Cancer Study
ATBC	Alpha-Tocopherol, Beta-Carotene Cancer Prevention
ATNC	apparent total <i>N</i> -nitroso compounds
AαC	2-amino-9 <i>H</i> -pyrido[2,3- <i>b</i> ]indole
BaP	benzo[ <i>a</i> ]pyrene
BCDDP	Breast Cancer Detection Demonstration Project
BCLL	B-cell chronic lymphocytic leukaemia
BFR	brominated flame retardant
BMI	body mass index
BOP	<i>N</i> -nitrosobis(2-oxopropyl)amine
bw	body weight
BWHS	Black Women's Health Study
CBCS	Collaborative Breast Cancer Study
CCFR	Colon Cancer Family Registry
CHARRED	Computerized Heterocyclic Amines Resource for Research in Epidemiology of Disease
CI	confidence interval
CLL	chronic lymphocytic leukaemia
CNBSS	Canadian National Breast Screening Study
CPS-II	Cancer Prevention Study II
CSFII	Continuing Survey of Food Intakes by Individuals
CYP	cytochrome P450
DBCg	Danish Breast Cancer Cooperative Group
DCPP	Pooling Project of Prospective Studies of Diet and Cancer
dG	deoxyguanosine
DHN-MA	1,4-dihydroxynonane mercapturic acid

DHQ	Diet History Questionnaire
DiMeIQx	2-amino-3,4,8-trimethylimidazo[4,5- <i>f</i> ]quinoxaline
DLBCL	diffuse large B-cell lymphoma
DMH	1,2-dimethylhydrazine
DNA	deoxyribonucleic acid
EAC	oesophageal adenocarcinoma
EFSA	European Food Safety Authority
EGFR	epidermal growth factor receptor
EPIC	European Prospective Investigation into Cancer and Nutrition
ER	estrogen receptor
ESCC	oesophageal squamous cell carcinoma
EU	European Union
FABP2	fatty acid binding protein 2
FAO	Food and Agriculture Organization of the United Nations
FAOSTAT	Food and Agriculture Organization of the United Nations Statistical Databases
FDA	Food and Drug Administration
FFQ	food frequency questionnaire
GCA	gastric cardia cancer
GC-MS	gas chromatography-mass spectrometry
GECCO	Genetics and Epidemiology of Colorectal Cancer Consortium
GEMS	Global Environment Monitoring System
Glu-P-2	2-aminodipyrido[1,2- <i>a</i> :3',2'- <i>d</i> ]imidazole
GNCA	gastric non-cardia cancer
HAA	heterocyclic aromatic amine
HACCP	hazard analysis and critical control point
HAMSB	butyrylated high-amylose maize starch
HBCD	hexabromocyclododecane
HHHQ	Health Habits and History Questionnaire
HIV	human immunodeficiency virus
HPFS	Health Professionals Follow-Up Study
HR	hazard ratio
IARC	International Agency for Research on Cancer
ICD	International Classification of Diseases
ICD-O	International Classification of Diseases for Oncology
IgQx	2-amino-1-methylimidazo[4,5- <i>g</i> ]quinoxaline
IQ	2-amino-3-methylimidazo[4,5- <i>f</i> ]quinoline
IWHS	Iowa Women's Health Study
JACC Study	Japan Collaborative Cohort Study for Evaluation of Cancer
JPHC Study	Japan Public Health Center-based Prospective Study
KCl	potassium chloride
LC-MS	liquid chromatography-mass spectrometry
LC-MS/MS	liquid chromatography-tandem mass spectrometry
LSS	Life Span Study
MCCS	Melbourne Collaborative Cohort Study
MDA	malondialdehyde
MDF	mucin-depleted foci
MeAαC	2-amino-3-methyl-9 <i>H</i> -pyrido[2,3- <i>b</i> ]indole
MeIQ	2-amino-3,4-dimethylimidazo[4,5- <i>f</i> ]quinoline
MeIQx	2-amino-3,8-dimethylimidazo[4,5- <i>f</i> ]quinoxaline
MMR	mismatch repair

MRL	maximum residue limit
MSI	microsatellite instability
MUFA	monounsaturated fatty acid
NaCl	sodium chloride
NAT	<i>N</i> -acetyltransferase
NCI	National Cancer Institute
NDBA	<i>N</i> -nitrosodi- <i>n</i> -butylamine
NDEA	<i>N</i> -nitrosodiethylamine
NDMA	<i>N</i> -nitrosodimethylamine
Neu5Ac	<i>N</i> -acetylneuraminic acid
Neu5Gc	<i>N</i> -glycolylneuraminic acid
NHPRO	<i>N</i> -nitrosohydroxyproline
NHS	Nurses' Health Study
NIH	National Institutes of Health
NLCS	Netherlands Cohort Study
NLCS-MIC	Netherlands Cohort Study – Meat Investigation Cohort
NMEA	<i>N</i> -nitrosomethylethylamine
NMOR	<i>N</i> -nitrosomorpholine
N-NO-IQ	2-nitrosoamino-3-methylimidazo[4,5- <i>f</i> ]quinoline
N-NO-MeIQx	2-nitrosoamino-3,8-dimethylimidazo[4,5- <i>f</i> ]quinoxaline
NO	nitric oxide
NOC	<i>N</i> -nitroso compound
N-OH-IQ	2-hydroxyamino-3-methylimidazo[4,5- <i>f</i> ]quinoline
N-OH-MeIQx	2-hydroxyamino-3,8-dimethylimidazo[4,5- <i>f</i> ]quinoxaline
NPIP	<i>N</i> -nitrosopiperidine
NPRO	<i>N</i> -nitrosoproline
NPYR	<i>N</i> -nitrosopyrrolidine
NutriCoDE	Global Burden of Diseases Nutrition and Chronic Diseases Expert Group
NYPR	<i>N</i> -nitrosopyrrolidine
NYUWHS	New York University Women's Health Study
O <sup>6</sup> -CMG	O <sup>6</sup> -carboxymethyl guanine
O <sup>6</sup> -MeG	O <sup>6</sup> -methylguanine
OR	odds ratio
PAH	polycyclic aromatic hydrocarbon
PARP	poly(ADP-ribose) polymerase
PBB	polybrominated biphenyl
PBDE	polybrominated diphenyl ether
PCB	polychlorinated biphenyl
PCDD	polychlorinated dibenzodioxin
PCDF	polychlorinated dibenzofuran
PCNA	proliferating cell nuclear antigen
PhIP	2-amino-1-methyl-6-phenylimidazo[4,5- <i>b</i> ]pyridine
PhIP-M1	7-hydroxy-5-methyl-3-phenyl-6,7,8,9,-tetrahydropyridol[3',2':4,5]imidazo[1,2- <i>a</i> ]pyrimidin-5-ium chloride
PHS	Physicians' Health Study
PLCO	Prostate, Lung, Colorectal and Ovarian
PUFA	polyunsaturated fatty acid
PR	progesterone receptor
PSA	prostate-specific antigen
PUFA	polyunsaturated fatty acid

RCC	renal cell carcinoma
RNA	ribonucleic acid
ROS	reactive oxygen species
RR	relative risk
SCHS	Singapore Chinese Health Study
SD	standard deviation
SEER	Surveillance, Epidemiology, and End Results
SFA	saturated fatty acid
SLL	small lymphocytic lymphoma
SMC	Swedish Mammography Cohort
SMHS	Shanghai Men's Health Study
SQFFQ	semiquantitative food frequency questionnaire
SWH	Survey of Women's Health
SWHS	Shanghai Women's Health Study
TBARS	thiobarbituric acid reactive substances
TBBPA	tetrabromobisphenol A
TCPS	Tennessee Colorectal Polyp Study
TQ-MS	triple quadrupole-mass spectrometry
Trp-P-1	3-amino-1,4-dimethyl-5 <i>H</i> -pyrido[4,3- <i>b</i> ]indole
Trp-P-2	3-amino-1-methyl-5 <i>H</i> -pyrido[4,3- <i>b</i> ]indole
TUNEL	dUTP nick end labelling
UCP2	uncoupling protein 2
UGT	UDP-glucuronosyltransferase
UKWCS	United Kingdom Women's Cohort Study
WCRF/AICR	World Cancer Research Fund/American Institute of Cancer Research
WHO	World Health Organization
WHS	Women's Health Study
XME	xenobiotic-metabolizing enzyme
XPD	xeroderma pigmentosum group D