

# LIST OF ABBREVIATIONS

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|-------------------------|--|
| AKT                     | protein kinase B   |
| AL                      | ad libitum   |
| AML                     | acute myeloid leukaemia                                      |
| AMP                     | adenosine monophosphate                                      |
| AMPK                    | AMP-activated protein kinase                                 |
| AOM                     | azoxymethane   |
| ATP                     | adenosine triphosphate                                       |
| BIA                     | bioelectrical impedance analysis                             |
| BMI                     | body mass index  |
| BOP                     | <i>N</i> -nitrosobis(2-oxopropyl)amine                       |
| CDK                     | cyclin-dependent kinase                                      |
| cDNA                    | complementary DNA  |
| CDR                     | chronic dietary restriction                                  |
| CI                      | confidence interval  |
| CIMP                    | CpG island methylator phenotype                              |
| CLL                     | chronic lymphocytic leukaemia                                |
| CML                     | chronic myeloid leukaemia                                    |
| COX-2                   | cyclooxygenase-2   |
| CR                      | calorie restriction  |
| CRC                     | colorectal cancer  |
| CRP                     | C-reactive protein   |
| CT                      | computed tomography  |
| DEN                     | diethylnitrosamine   |
| DHEA                    | dehydroepiandrosterone                                       |
| DIO                     | diet-induced obesity   |
| DLBCL                   | diffuse large B-cell lymphoma                                |
| DMBA                    | 7,12-dimethylbenz[ <i>a</i> ]anthracene                      |
| DR                      | dietary restriction  |
| DXA                     | dual-energy X-ray absorptiometry                             |
| EDC                     | endocrine-disrupting chemical                                |
| 8-epi-PGF <sub>2α</sub> | 8-epi-prostaglandin F <sub>2α</sub>                          |
| EPIC                    | European Prospective Investigation into Cancer and Nutrition |
| ER                      | estrogen receptor  |
| F344                    | Fischer 344  |

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|----------------|--|
| GIANT          | Genetic Investigation of Anthropometric Traits                 |
| GRS            | genetic risk score   |
| GTG            | gold thioglucose   |
| HBV            | hepatitis B virus  |
| HCC            | hepatocellular carcinoma                                       |
| HCV            | hepatitis C virus  |
| HER2           | human epidermal growth factor receptor 2                       |
| HFD            | high-fat diet  |
| HPV            | human papillomavirus   |
| HR             | hazard ratio   |
| HRT            | hormone replacement therapy                                    |
| IARC           | International Agency for Research on Cancer                    |
| ICD            | International Classification of Diseases                       |
| IDR            | intermittent dietary restriction                               |
| IGF-1          | insulin-like growth factor 1                                   |
| IGF-1R         | IGF-1 receptor   |
| IGFBP          | IGF binding protein  |
| IL             | interleukin  |
| IWL            | intentional weight loss  |
| LFD            | low-fat diet   |
| MAPK           | mitogen-activated protein kinase                               |
| METs           | metabolic equivalents  |
| MMTV           | mouse mammary tumour virus                                     |
| MNU            | <i>N</i> -methyl- <i>N</i> -nitrosourea                        |
| MRI            | magnetic resonance imaging                                     |
| MSI            | microsatellite instability                                     |
| MSS            | microsatellite-stable  |
| mTOR           | mammalian target of rapamycin                                  |
| NAFLD          | non-alcoholic fatty liver disease                              |
| NAFPD          | non-alcoholic fatty pancreatic disease                         |
| NASH           | non-alcoholic steatohepatitis                                  |
| NCDs           | noncommunicable diseases                                       |
| NF- $\kappa$ B | nuclear factor kappa-light-chain-enhancer of activated B cells |
| NHANES         | National Health and Nutrition Examination Survey               |
| NHL            | non-Hodgkin lymphoma   |
| NIH-AARP       | National Institutes of Health–AARP Diet and Health Study       |
| NOS            | not otherwise specified  |
| 25(OH)D        | 25-hydroxyvitamin D  |
| OR             | odds ratio   |
| 8-oxo-dG       | 8-hydroxydeoxyguanosine  |
| PAI-1          | plasminogen activator inhibitor-1                              |
| PanIN          | pancreatic intraepithelial neoplasia                           |
| PCR            | polymerase chain reaction                                      |
| PDAC           | pancreatic ductal adenocarcinoma                               |
| PI3K           | phosphoinositide 3-kinase                                      |
| PIN            | prostatic intraepithelial neoplasia                            |
| PPAR           | peroxisome proliferator-activated receptor                     |
| PR             | progesterone receptor  |
| PSA            | prostate-specific antigen                                      |
| RCC            | renal cell carcinoma   |

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|--------------------|--|
| RCT                | randomized controlled trial                      |
| ROS                | reactive oxygen species                          |
| RR                 | relative risk                                    |
| SASP               | salicylazosulfapyridine                          |
| SD                 | standard deviation                               |
| SEER               | Surveillance, Epidemiology, and End Results      |
| sGC                | soluble guanylyl cyclase                         |
| SHBG               | sex hormone-binding globulin                     |
| SHT                | scopolamine hydrobromide trihydrate              |
| SLL                | small lymphocytic lymphoma                       |
| SNP                | single nucleotide polymorphism                   |
| STAT               | signal transducer and activator of transcription |
| TDR                | total dietary restriction                        |
| TGF                | transforming growth factor                       |
| TNF- $\alpha$      | tumour necrosis factor alpha                     |
| TPA                | 12- <i>O</i> -tetradecanoylphorbol-13-acetate    |
| TRAMP              | transgenic adenocarcinoma of the mouse prostate  |
| VEGF               | vascular endothelial growth factor               |
| Vo <sub>2max</sub> | maximal oxygen uptake                            |
| WC                 | waist circumference                              |
| WCRF               | World Cancer Research Fund                       |
| WHO                | World Health Organization                        |
| WHR                | waist-to-hip ratio                               |

