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LIST OF ABBREVIATIONS

| | |
|---------------------|--|
| a | ESR hyperfine coupling constant |
| $^{\circ}\text{C}$ | degree Celsius |
| ^{13}C | carbon-13 |
| cm | centimetre |
| CDCl_3 | deuterated chloroform |
| COSY | correlated spectroscopy |
| δ_{C} | carbon chemical shift |
| δ_{H} | proton chemical shift |
| DMBA | 7,12-dimethylbenz[a]anthracene |
| EBV EA | Epstein Barr virus early antigen |
| EI | electron impact |
| ESR | electron spin resonance |
| Fig. | figure |
| FT | Fourier transformed |
| g | gram |
| G | gauss (for ESR) |
| G | gravitational force (for centrifugation) |
| GHz | gigahertz |
| ^1H | proton |
| HDL | high density lipoproteins |
| HETCOR | heteronuclear correlated spectroscopy |
| HPLC | high performance liquid chromatography |
| Hz | hertz |
| i.d. | internal diameter |
| IDL | intermediate density lipoproteins |
| IR | infrared |

| | |
|-----------------|--|
| K | Kelvin |
| $K_3Fe(CN)_6$ | potassium ferricyanide |
| kcal | kilocalories |
| KOH | potassium hydroxide |
| kHz | kilohertz |
| LDL | low density lipoproteins |
| M | molarity (mol/dm ³) |
| mg | milligram |
| MHz | megahertz |
| min | minute |
| mL | millilitre |
| mm | millimetre |
| mm ² | millimeter square |
| MS | mass spectrum/spectra |
| mV | millivolt |
| m.w. | molecular weight |
| m/z | mass/charge |
| nm | nanometre |
| N ₂ | nitrogen gas |
| N.A. | not available |
| NaOH | sodium hydroxide |
| NMR | nuclear magnetic resonance |
| NOE | nuclear Overhauser effect |
| NOESY | nuclear Overhauser effect spectroscopy |
| OFR | off-resonance |
| <i>p</i> -DNB | <i>para</i> -dinitrobenzene |
| PFAD | palm fatty acid distillate |

| | |
|-------------------------------|--|
| Ph_3CH | triphenylmethane |
| $\text{Ph}_3\text{C}^\bullet$ | triphenylmethyl radical |
| ppm | parts per million |
| RBD | refined, bleached and deodorized |
| rpm | revolutions per minute |
| r.t. | retention time |
| s | second |
| SET | single electron transfer |
| S_N | nucleophilic substitution |
| $\text{S}_\text{N}2$ | bimolecular nucleophilic substitution |
| $\text{S}_\text{RN}1$ | unimolecular nucleophilic radical substitution |
| T | tocopherol |
| T^\bullet | tocopheroxyl radical |
| $\gamma\text{-T}_3\text{DED}$ | γ -tocotrienol dichromanyl ether dimer |
| T_3 | tocotrienol |
| T_3^\bullet | tocotrienoxyl radical |
| $\gamma\text{-TDED}$ | γ -tocopherol dichromanyl ether dimer |
| TLC | thin layer chromatography |
| TMS | tetramethylsilane |
| TPA | 12- <i>O</i> -tetradecanoylphorbol-13-acetate |
| UV | ultra-violet |
| v | volume |
| VLDL | very low density lipoproteins |
| w | weight |
| μg | microgram |
| μl | microlitre |
| μm | micrometre |