

Abbreviations

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| AdipoQ | Adiponectin |
| AMPK | AMP-activated protein kinase |
| AT | Adipose tissues |
| ATF4 | Activating transcription factor 4 |
| ATF6 | Activating transcription factor 6 |
| ATMs | Adipose Tissue Macrophages |
| BAT | Brown adipose tissues |
| C/EBP α | CCAAT enhancer binding protein |
| CCR2 | CC motif chemokine receptor 2 |
| CHOP | C/EBP homologous protein |
| ER | Endoplasmic reticulum |
| ERAD | ER-associated protein degradation |
| FABP4 | Fatty acid binding protein 4 |
| FAO | Fatty acid oxidation |
| FATP1 | Fatty acid transport protein 1 |
| FFA | Free fatty acid |
| GADD34 | Growth arrest and DNA damage-inducible protein 34 |
| HFD | High fed diet |
| Hif1 α | Hypoxia-inducible factor 1 subunit alpha |
| HOMA-IR | Homeostatic Model Assessment for Insulin Resistance |
| IFN γ | Interferon gamma |
| IL10 | Interleukin 10 |
| IL13 | Interleukin 13 |
| IL4 | Interleukin 4 |
| IL6 | Interleukin 6 |
| IR | Insulin resistance |
| IRE-1 α | Inositol-requiring enzyme type 1 |
| IRS-1/2 | Insulin receptor substrate-1/2 |
| LAMs | Lipid associated macrophages |
| LPS | Lipopolysaccharide |
| MCP1 | Monocyte chemoattractant protein-1 |

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| MetS | Metabolic syndrome |
| MMe | Metabolically activated macrophages |
| NIDDM | Non-insulin dependent diabetes mellitus |
| OXPPOS | Oxidative phosphorylation |
| PERK | Protein kinase R-like endoplasmic reticulum kinase |
| PGC1 α | PPAR γ coactivator 1-alpha |
| PLIN2 | Perilipin2 |
| PPAR γ | Peroxisome proliferator-activated receptor gamma |
| SAT | Subcutaneous adipose tissues |
| SREBP | Sterol regulatory element-binding protein |
| T2D | Type II diabetes |
| TGF β | Transforming growth factor beta |
| TLRs | Toll like receptors |
| TNF α | Tumour necrosis factor alpha |
| UPR | Unfolded protein response |
| VAT | Visceral adipose tissues |
| VEGF | Vascular endothelial growth factor |
| WAT | White adipose tissues |
| XBP1 | X-box binding protein 1 |