**Abbreviations**

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| CAD | Coronary artery disease |
| lncRNA | Long noncoding RNA |
| ICM | Ischaemic cardiomyopathy |
| CVDs | Cardiovascular diseases  |
| LDL | Low-density lipoprotein |
| OxLDL | Oxidized LDL |
| ANRIL | Antisense noncoding RNA in the INK4 locus |
| MALAT1 | Metastasis-associated lung adenocarcinoma transcript 1 |
| MIAT | Myocardial infarction associated transcript |
| mTOR | Mammalian target of rapamycin |
| PBMCs | Peripheral blood mononuclear cells |
| GEO | Gene Expression Omnibus |
| IRGs | Immune-related genes |
| ENA | European Nucleotide Archive |
| VST | Variance stabilizing transformed |
| PCA | Principal component analysis |
| DEMs | Differentially expressed immune mRNAs |
| DELncs | Differentially expressed lncRNAs |
| DEIRGs | Differentially expressed immune-related genes |
| WGCNA | Weighted gene co-expression network analysis |
| LASSO | The least absolute shrinkage and selection operator |
| RF-RFE | Random forest-recursive feature elimination |
| GSEA | Gene set enrichment analysis  |
| GSVA | Gene set variation analysis |
| KEGG | The Kyoto Encyclopedia of Genes and Genomes |
| HF | Heart failure |