**Table S3. Findings of circRNAs in myocardial infarction.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| CircRNAs | Expression | Species/Cell | Target regulation | Mechanisms | Ref. |
| MACF1 | Downregulated | Mouse | miR-500b-5p/EMP1 | Apoptosis | 1 |
| CDYL | Downregulated | Mouse | miR-4793-5p/APP | Proliferation; Regeneration | 2 |
| SNRK | Downregulated | Rat | miR-103-3p/GSK3β/β-catenin | Apoptosis; Proliferation | 3 |
| LAS1L | Downregulated | Human/CFs | miR-125b/SFRP5 | Fibrosis | 4 |
| Ube3a | Upregulated | Mouse/CFs | miR-138-5p/RhoC | Fibrosis | 5 |
| 0124644 | Upregulated | Human/AC16 | miR-590-3p/SOX4 | Hypoxia-induced  cardiomyocytes injury | 6 |
| Cdr1as | Upregulated | Mouse/MCM | miR-7a/PARP&SP1 | Apoptosis | 7 |
| MICRA | Downregulated | Human | N/A | Heart failure | 8 |
| CircFndc3b | Downregulated | Human/Mouse | FUS-VEGF-A | Angiogenesis; Apoptosis | 9 |
| CNEACR | Downregulated | Mouse | HDAC7/Foxa2/RIPK3 | Necroptosis | 10 |
| 010567 | Upregulated | H9c2 | miR-141/DAPK1 | Fibrosis; Apoptosis | 11 |
| circ\_0023461 | Upregulated | AC16 | miR-370-3p/PDE4D | Apoptosis; Oxidative stress; Inflammation | 12 |
| circ1615 | Downregulated | Mouse/HL-1 | miR-152-3p/LRP6 | Ferroptosis; Autophagy | 13 |
| circ\_NNT | Upregulated | Mouse | miR-33a-5p/USP46 | Pyroptosis | 14 |
| Nfix | Upregulated | Mouse/Rat | miR-214/Gsk3β | Cardiac Regeneration; Angiogenesis | 15 |
| Hipk3 | Downregulated | Human/Mouse | miR-133a/Notch1 | Cardiac Regeneration | 16 |
| ACR | Downregulated | NMCMs | Pink1/FAM65B | Autophagy | 17 |
| ACAP2 | Upregulated | Rat/H9c2 | miR-29 | Apoptosis | 18 |
| 101237 | Upregulated | PC | let-7a-5p/IGF2BP3 | Apoptosis | 19 |
| ACAP2 | Upregulated | Human/AC16 | miR-532 | Apoptosis | 20 |
| MFACR | Upregulated | Human/AC16 | miR-125b | Apoptosis | 21 |
| MAT2B | Upregulated | H9c2 | miR-133 | Apoptosis | 22 |
| circJARID2 | Upregulated | H9c2 | miR-9-5p/BNIP3 | Apoptosis | 23 |
| NFIB | Downregulated | Mouse | miR-433 | Proliferation; Fibrosis | 24 |
| Helz | Upregulated | Mouse | miR-133a-3p/NLRP3 | Pyroptosis | 25 |
| PVT1 | Upregulated | Mouse | miR-125b & miR-200a | Apoptosis | 26 |
| circITGB1 | Upregulated | Human | miR-342-3p/NFAM1 | Dendritic cell maturation; | 27 |
| MFACR | Upregulated | Mouse | miR-652-3p/MTP18 | Apoptosis | 28 |
| circRbms1 | Upregulated | Mouse | miR-742-3p/FOXO1 | N/A | 29 |
| circ\_SMG6 | Upregulated | Mouse/HL-1 | miR-138-5p/  EGR1/TLR4/TRIF | I/R injury | 30 |
| circ\_0007059 | Upregulated | Mouse | miR-378/miR-383 | Apoptosis; Inflammation | 31 |
| circHSPG2 | Upregulated | AC-16 | miR-25-3p/PAWR | N/A | 32 |
| circTDRD3 | Upregulated | Mouse | miR-4295 / TP63 | Apoptosis | 33 |

Abbreviation: EMP1: epithelial membrane protein 1; SFRP5: secreted frizzled-related protein 5; SOX4: SRY-box transcription factor 4; DAPK1: Death-associated protein kinase 1; Gsk3β: glycogen synthase kinase 3 β; FAM65B: Family with sequence similarity 65 member B; IGF2BP3: insulin‑like growth factor 2 mRNA‑binding protein 3; BNIP3: B-cell lymphoma-2 (Bcl-2) interacting protein 3; N/A: Not application.

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