Supplementary Material

# Supplementary Tables

**Table S1.** Demographic characteristics of the patients (Screening groups)

|  |  |  |  |
| --- | --- | --- | --- |
|  | SAR(n=3) | TBLN(n=3) | Con(n=3) |
| Number  | SAR1 | SAR2 | SAR3 | TBLN1 | TBLN2 | TBLN3 | Con1 | Con2 | Con3 |
| Sex(F/W) | W | W | F | W | W | F | W | W | F |
| Age(years) | 32 | 34 | 40 | 32 | 34 | 40 | 32 | 34 | 40 |

Abbreviations: SAR, sarcoidosis; TBLN, tuberculous lymphadenitis; Con, control.

**Table S2.** Differentially expressed miRNAs in the lymph nodes of patients with SAR, TBLN and Con(*P*<0.05)

|  |  |  |
| --- | --- | --- |
| **SAR Versus Con** | **TBLN Versus Con** | **SAR Versus TBLN** |
| **Has-miRNA** | **-△△CT** | ***P* Value** | **Has-miRNA** | **-△△CT** | ***P* Value** | **Has-miRNA** | **-△△CT** | ***P* Value** |
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| --- |
| hsa-let-7b-002619 |
| hsa-let-7c-000379 |
| hsa-miR-103-000439 |
| hsa-miR-106a-002169 |
| hsa-miR-106b-000442 |
| hsa-miR-10a-000387 |
| hsa-miR-125a-5p-002198 |
| hsa-miR-125b-000449 |
| hsa-miR-128a-002216 |
| hsa-miR-130b-000456 |
| hsa-miR-133a-002246 |
| hsa-miR-139-5p-002289 |
| hsa-miR-142-3p-000464 |
| hsa-miR-142-5p-002248 |
| hsa-miR-145-002278 |
| hsa-miR-146a-000468 |
| hsa-miR-150-000473 |
| hsa-miR-15a-000389 |
| hsa-miR-15b-000390 |
| hsa-miR-16-000391 |
| hsa-miR-185-002271 |
| hsa-miR-18a-002422 |
| hsa-miR-190-000489 |
| hsa-miR-191-002299 |
| hsa-miR-193b-002367 |
| hsa-miR-196b-002215 |
| hsa-miR-197-000497 |
| hsa-miR-19a-000395 |
| hsa-miR-19b-000396 |
| hsa-miR-20b-001014 |
| hsa-miR-210-000512 |
| hsa-miR-21-000397 |
| hsa-miR-214-002306 |
| hsa-miR-221-000524 |
| hsa-miR-224-002099 |
| hsa-miR-25-000403 |
| hsa-miR-26b-000407 |
| hsa-miR-28-000411 |
| hsa-miR-320-002277 |
| hsa-miR-324-3p-002161 |
| hsa-miR-328-000543 |
| hsa-miR-335-000546 |
| hsa-miR-339-5p-002257 |
| hsa-miR-340-002258 |
| hsa-miR-362-001273 |
| hsa-miR-365-001020 |
| hsa-miR-374-000563 |
| hsa-miR-384-000574 |
| hsa-miR-422a-002297 |
| hsa-miR-424-000604 |
| hsa-miR-425-5p-001516 |
| hsa-miR-449b-001608 |
| hsa-miR-450b-3p-002208 |
| hsa-miR-452-002329 |
| hsa-miR-483-5p-002338 |
| hsa-miR-484-001821 |
| hsa-miR-502-001109 |
| hsa-miR-502-3p-002083 |
| hsa-miR-505-002089 |
| hsa-miR-511-001111 |
| hsa-miR-518e-002395 |
| hsa-miR-576-3p-002351 |
| hsa-miR-625-002431 |
| hsa-miR-642-001592 |
| hsa-miR-652-002352 |
| hsa-miR-671-3p-002322 |
| hsa-miR-708-002341 |
| hsa-miR-744-002324 |
| hsa-miR-885-5p-002296 |
| hsa-miR-92a-000431 |
| mmu-miR-124a-001182 |
| mmu-miR-134-001186 |
| mmu-miR-374-5p-001319 |
| mmu-miR-451-001141 |
| mmu-miR-93-001090 |

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| --- |
| -1.43 |
| -2.78 |
| 3.26 |
| 1.55 |
| 2.89 |
| -1.42 |
| -1.45 |
| -1.15 |
| 2.23 |
| 1.64 |
| -4.11 |
| -2.79 |
|  |
| 2.55 |
| 2.88 |
| -3.12 |
| 2.87 |
| 0.88 |
| 4.22 |
| 3.28 |
| 2.84 |
| 3.89 |
| 2.9 |
| 2.57 |
| 1.22 |
| -2.11 |
| 1.56 |
| 1.54 |
| 2.91 |
| 2.21 |
| 2.55 |
| 2.88 |
| 4.29 |
| -2.11 |
| 1.91 |
| -1.77 |
| 2.9 |
| 1.56 |
| 1.57 |
| -1.45 |
| 1.55 |
| 1.53 |
| -2.77 |
| 1.91 |
| 2.55 |
| 1.9 |
| 1.88 |
| 2.23 |
| 2.68 |
| 3.9 |
| 1.55 |
| 2.91 |
| 4.23 |
| 1.57 |
| -2.79 |
| -3.45 |
| 1.23 |
| 1.54 |
| 1.88 |
| 1.55 |
| 2.56 |
| 1.55 |
| 2.56 |
| 2.57 |
| 1.55 |
| 1.9 |
| 1.22 |
| 2.23 |
| 1.88 |
| 5.89 |
| 2.23 |
| 2.58 |
| -2.44 |
| 2.23 |
| 3.55 |
| 2.91 |

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| --- |
| 0.002 |
| 0.011 |
| 0.022 |
| 0.045 |
| 0.005 |
| 0.013 |
| 0.023 |
| 0.026 |
| 0.013 |
| 0.041 |
| 0.001 |
| 0.031 |
| 0.015 |
| 0.005 |
| 0.002 |
| 0.017 |
| 0.036 |
| 0.003 |
| 0.007 |
| 0.024 |
| 0.003 |
| 0.005 |
| 0.009 |
| 0.014 |
| 0.040 |
| 0.037 |
| 0.011 |
| 0.050 |
| 0.020 |
| 0.008 |
| 0.009 |
| 0.003 |
| 0.002 |
| 0.029 |
| 0.043 |
| 0.001 |
| 0.041 |
| 0.011 |
| 0.016 |
| 0.001 |
| 0.042 |
| 0.009 |
| 0.005 |
| 0.038 |
| 0.003 |
| 0.016 |
| 0.027 |
| 0.008 |
| 0.001 |
| 0.023 |
| 0.019 |
| 0.014 |
| 0.046 |
| 0.006 |
| 0.024 |
| 0.015 |
| 0.042 |
| 0.003 |
| 0.044 |
| 0.013 |
| 0.040 |
| 0.009 |
| 0.024 |
| 0.010 |
| 0.028 |
| 0.003 |
| 0.03 |
| 0.035 |
| <0.001 |
| 0.019 |
| 0.035 |
| 0.009 |
| 0.014 |
| 0.023 |
| 0.001 |

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| --- |
| hsa-let-7c-000379 |
| hsa-miR-100-000437 |
| hsa-miR-125b-000449 |
| hsa-miR-128a-002216 |
| hsa-miR-130b-000456 |
| hsa-miR-133a-002246 |
| hsa-miR-139-5p-002289 |
| hsa-miR-142-5p-002248 |
| hsa-miR-145-002278 |
| hsa-miR-15a-000389 |
| hsa-miR-16-000391 |
| hsa-miR-185-002271 |
| hsa-miR-19a-000395 |
| hsa-miR-20b-001014 |
| hsa-miR-21-000397 |
| hsa-miR-223-002295 |
| hsa-miR-25-000403 |
| hsa-miR-324-3p-002161 |
| hsa-miR-335-000546 |
| hsa-miR-424-000604 |
| hsa-miR-425-5p-001516 |
| hsa-miR-449b-001608 |
| hsa-miR-484-001821 |
| mmu-miR-93-001090 |

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|  |
| --- |
| -2.98 |
| -2.65 |
| -2.67 |
| 2 |
| 2.7 |
| -4.66 |
| -4.33 |
| 2.33 |
| -3.99 |
| 2.35 |
| 2.31 |
| 4.66 |
| 2.02 |
| 1.34 |
| 3.35 |
| 2.67 |
| 2.7 |
| 1.68 |
| -3.66 |
| 1.67 |
| 3.02 |
| 5.99 |
| 1.01 |
| 2.03  |

 |

|  |
| --- |
| 0.014 |
| 0.009 |
| 0.010 |
| 0.034 |
| 0.020 |
| 0.006 |
| 0.018 |
| 0.014 |
| 0.009 |
| 0.011 |
| 0.035 |
| 0.042 |
| 0.019 |
| 0.016 |
| 0.049 |
| 0.001 |
| 0.040 |
| 0.002 |
| 0.004 |
| 0.033 |
| 0.015 |
| 0.026 |
| 0.0300.005 |

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|  |
| --- |
| hsa-miR-138-002284 |
| hsa-miR-885-5p-002296 |
| hsa-miR-106a-002169 |
| hsa-miR-101-002253 |
| hsa-miR-197-000497 |
| hsa-miR-15a-000389 |
| hsa-miR-30b-000602 |
| hsa-miR-301-000528 |
| hsa-miR-221-000524 |
| mmu-miR-93-001090 |
| hsa-miR-30c-000419 |
| hsa-miR-100-000437 |
| mmu-miR-374-5p-001319 |
| hsa-miR-9-000583 |
| hsa-miR-125b-000449 |
| hsa-miR-224-002099 |
| hsa-miR-532-001518 |
| hsa-miR-17-002308 |
| hsa-miR-671-3p-002322 |

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|  |
| --- |
| -2.21 |
| -5.52 |
| -1.21 |
| -1.16 |
| -2.19 |
| -1.87 |
| -3.26 |
| -3.88 |
| -1.23 |
| -0.88 |
| -2.89 |
| -1.88 |
| -3.23 |
| -2.56 |
| -1.52 |
| 2.46 |
| -1.23 |
| -1.56 |
| -1.21 |

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|  |
| --- |
| 0.001 |
| 0.004 |
| 0.008 |
| 0.009 |
| 0.015 |
| 0.016 |
| 0.021 |
| 0.021 |
| 0.022 |
| 0.029 |
| 0.032 |
| 0.032 |
| 0.033 |
| 0.039 |
| 0.040 |
| 0.040 |
| 0.044 |
| 0.045 |
| 0.048 |

 |

Abbreviations: SAR=sarcoidosis; TBLN=tuberculous lymphadenitis; Con=control.

**Table S3**. Targeted genes of differentially expressed miRNA.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| miRNA | miR-145 | miR-185 | miR-301 | miR-425-5P | miR-449b | miR-885-5P |
| genesymbol | ABRACLARF6CBFBCLINT1ERGFSCN1MAP3K3MYO6MYRFNEDD9PLAGL2RREB1RTKNSERPINE1SMAD3TPM3 | ABCG4ACTN4CAMK2DCDC42EMC10LPCAT3PBX2SF1SLC8A1UHMK1 | PTPRGNUS1SALL3CHIC1ZNF800RAB14MAPK1NIPA1LDLRBTBD3CDK19NR3C2DDX6FXR1ARL6IP1 | CREBZF | BCL2L13CCNE2CDK6GMFBLDHAPPP1R11TSN | - |

Note: Predicted targeted genes of differentially expressed miRNA respectively. the intersection of target genes, which were experimentally validated according to previous published studies, predicted by TargetScan and miRDB.

**Table S4** KEGG pathways analyzed by the miRNA-target algorithm and the corresponding Targeted genes.

|  |  |  |  |
| --- | --- | --- | --- |
| Category | Term | P Value | Target gene |
| hsa05212 | Pancreatic cancer | 0.0011 | CDC42, MAPK1, SMAD3, CDK6 |
| hsa04520 | Adherens junction | 0.0014 | CDC42, MAPK1, ACTN4, SMAD3 |
| hsa04912 | GnRH signaling pathway | 0.0029 | CDC42, MAPK1, MAP3K3, CAMK2D |
| hsa05203 | Viral carcinogenesis | 0.0037 | CCNE2, CDC42, MAPK1, ACTN4, CDK6 |
| hsa04722 | Neurotrophin signaling pathway | 0.0063 | CDC42, MAPK1, MAP3K3, CAMK2D |
| hsa05200 | Pathways in cancer | 0.007 | CCNE2, CDC42, MAPK1, SMAD3, CDK6, TPM3 |
| hsa05214 | Glioma | 0.018 | MAPK1, CAMK2D, CDK6 |
| hsa04115 | p53 signaling pathway | 0.019 | CCNE2, SERPINE1, CDK6 |
| hsa04666 | Fc gamma R-mediated phagocytosis | 0.0291 | CDC42, MAPK1, ARF6 |
| hsa04066 | HIF-1 signaling pathway | 0.0371 | MAPK1, SERPINE1, CAMK2D |
| hsa04144 | Endocytosis  | 0.04 | CDC42, LDLR, SMAD3, ARF6 |
| hsa05142 | Chagas disease (American trypanosomiasis | 0.043 | MAPK1, SERPINE1, SMAD3 |
| hsa04114 | Oocyte meiosis | 0.0483 | CCNE2, MAPK1, CAMK2D |
| hsa04110 | Cell cycle | 0.0589 | CCNE2, SMAD3, CDK6 |
| hsa04261 | Adrenergic signaling in cardiomyocytes | 0.0711 | MAPK1, CAMK2D, TPM3 |
| hsa05161 | Hepatitis B | 0.0775 | CCNE2, MAPK1, CDK6 |
| hsa05216 | Thyroid cancer | 0.0889 | MAPK1, TPM3 |