

S3 Table. The 50 most highly up- or downregulated genes.

A list of most significantly differentially regulated genes common to TB and RA vs. controls, detected through the random effect model (REM) in NetworkAnalyst. DEGs were first detected in their respective studies through Benjamini–Hochberg's False Discovery Rate (FDR) with cut-off p-values of < 0.05, before running the REM analysis. In total 341 genes (table S4) were found as significantly regulated by this method (P-value < 0.01).

Upregulated genes:

| EntrezID | Name | CombinedES | P-value | EntrezID | Name | CombinedES | P-value |
|----------|-----------|------------|----------|----------|----------|------------|------------|
| 7100 | TLR5 | 1,4674 | 2,47E-09 | 22921 | MSRB2 | 1,4496 | 8,90E-05 |
| 8743 | TNFSF10 | 2,0036 | 4,86E-09 | 1462 | VCAN | 0,95884 | 9,24E-05 |
| 55288 | RHOT1 | 1,3542 | 2,39E-08 | 5728 | PTEN | 0,95704 | 9,24E-05 |
| 23765 | IL17RA | 1,2507 | 2,43E-07 | 91056 | AP5B1 | 0,97018 | 0,00010652 |
| 3240 | HP | 1,1996 | 9,63E-07 | 24138 | IFIT5 | 0,94647 | 0,0001096 |
| 22849 | CPEB3 | 1,1736 | 1,47E-06 | 64397 | ZFP106 | 1,2214 | 0,00012596 |
| 115207 | KCTD12 | 1,1466 | 3,41E-06 | 3142 | HLX | 0,94776 | 0,00012676 |
| 3176 | HNMT | 1,1162 | 5,14E-06 | 22885 | ABLIM3 | 0,93706 | 0,00013773 |
| 5058 | PAK1 | 1,1049 | 6,33E-06 | 10673 | TNFSF13B | 1,3985 | 0,00014295 |
| 79932 | KIAA0319L | 1,0984 | 7,19E-06 | 2932 | GSK3B | 0,93698 | 0,00014441 |
| 3934 | LCN2 | 1,0534 | 1,65E-05 | 1955 | MEGF9 | 1,5463 | 0,00014668 |
| 8819 | SAP30 | 1,0331 | 2,97E-05 | 1903 | S1PR3 | 0,93718 | 0,00014668 |
| 2745 | GLRX | 1,9062 | 3,35E-05 | 10613 | ERLIN1 | 0,93537 | 0,00014668 |
| 79772 | MCTP1 | 1,0588 | 3,50E-05 | 10981 | RAB32 | 1,3899 | 0,00016729 |
| 26873 | OPLAH | 1,1551 | 4,08E-05 | 2529 | FUT7 | 1,1976 | 0,00019552 |
| 23643 | LY96 | 1,9692 | 4,16E-05 | 1845 | DUSP3 | 1,4934 | 0,00021618 |
| 838 | CASP5 | 1,0912 | 4,27E-05 | 433 | ASGR2 | 1,0971 | 0,00021618 |
| 10261 | IGSF6 | 0,9927 | 5,55E-05 | 57616 | TSHZ3 | 1,3809 | 0,000222 |
| 8291 | DYSF | 1,3642 | 6,43E-05 | 8402 | SLC25A11 | 0,90323 | 0,00024482 |
| 338339 | CLEC4D | 1,2795 | 6,43E-05 | 9332 | CD163 | 0,92146 | 0,00027386 |
| 84316 | LSMD1 | 1,1187 | 6,56E-05 | 23586 | DDX58 | 0,89891 | 0,00030153 |
| 114769 | CARD16 | 1,4257 | 6,90E-05 | 23380 | SRGAP2 | 0,89742 | 0,00031664 |
| 10419 | PRMT5 | 0,97711 | 6,96E-05 | 1861 | TOR1A | 0,88923 | 0,00033299 |
| 51065 | RPS27L | 1,2664 | 7,61E-05 | 23569 | PADI4 | 0,88542 | 0,00033607 |
| 91543 | RSAD2 | 0,98354 | 8,65E-05 | 51311 | TLR8 | 1,4764 | 0,00034778 |

Down-regulated genes:

| EntrezID | Name | CombinedES | P-value | EntrezID | Name | CombinedES | P-value |
|----------|----------|------------|------------|----------|-----------|------------|------------|
| 57062 | DDX24 | 1,294 | 9,64E-08 | 1408 | CRY2 | 0,87925 | 0,00042583 |
| 26051 | PPP1R16B | 1,3586 | 3,34E-07 | 6191 | RPS4X | 0,86739 | 0,00045462 |
| 79868 | ALG13 | 1,1823 | 1,28E-06 | 79796 | ALG9 | 1,0251 | 0,00047214 |
| 3187 | HNRNPH1 | 1,4745 | 4,80E-06 | 64112 | MOAP1 | 1,0755 | 0,00052434 |
| 57602 | USP36 | 1,5677 | 5,21E-06 | 10425 | ARIH2 | 1,1568 | 0,00052595 |
| 55602 | CDKN2AIP | 1,0963 | 6,99E-06 | 7486 | WRN | 1,0711 | 0,00055602 |
| 56257 | MEPCE | 1,0558 | 1,65E-05 | 147694 | ZNF548 | 0,95848 | 0,00055602 |
| 6477 | SIAH1 | 1,055 | 1,65E-05 | 10199 | MPHOSPH10 | 0,85553 | 0,00059339 |
| 11044 | PAPD7 | 1,0246 | 3,27E-05 | 8665 | EIF3F | 0,84643 | 0,00063299 |
| 338657 | CCDC84 | 1,1973 | 3,47E-05 | 56941 | C3orf37 | 0,87353 | 0,00063972 |
| 65108 | MARCKSL1 | 1,0621 | 3,61E-05 | 2254 | FGF9 | 0,84844 | 0,00066006 |
| 54476 | RNF216 | 1,4547 | 4,20E-05 | 6259 | RYK | 0,92941 | 0,00077098 |
| 55683 | KANSL3 | 1,1817 | 6,43E-05 | 9117 | SEC22C | 0,84337 | 0,00077098 |
| 51277 | DNAJC27 | 0,97476 | 6,90E-05 | 55846 | ITFG2 | 0,84182 | 0,00077098 |
| 4209 | MEF2D | 1,0888 | 7,61E-05 | 23020 | SNRNP200 | 1,0772 | 0,00080654 |
| 93058 | COQ10A | 1,1886 | 9,24E-05 | 3399 | ID3 | 1,5832 | 0,00089329 |
| 8731 | RNMT | 1,156 | 9,24E-05 | 9267 | CYTH1 | 0,83255 | 0,00090035 |
| 51654 | CDK5RAP1 | 1,1401 | 0,00012596 | 2794 | GNL1 | 0,82794 | 0,00096285 |
| 6832 | SUPV3L1 | 1,3574 | 0,00014449 | 55661 | DDX27 | 0,83237 | 0,00096671 |
| 7050 | TGIF1 | 1,2326 | 0,00014668 | 55274 | PHF10 | 0,82724 | 0,00096671 |
| 79156 | PLEKHF1 | 0,93213 | 0,00014757 | 2889 | RAPGEF1 | 0,95124 | 0,0010094 |
| 64745 | METTL17 | 0,9622 | 0,0001492 | 23234 | DNAJC9 | 0,82806 | 0,0010458 |
| 23119 | HIC2 | 0,91973 | 0,00016827 | 130074 | FAM168B | 0,81238 | 0,0013477 |
| 9533 | POLR1C | 1,3076 | 0,00023909 | 51569 | UFM1 | 0,80466 | 0,0013505 |
| 113791 | PIK3IP1 | 1,597 | 0,00042583 | 54946 | SLC41A3 | 1,0231 | 0,00144 |