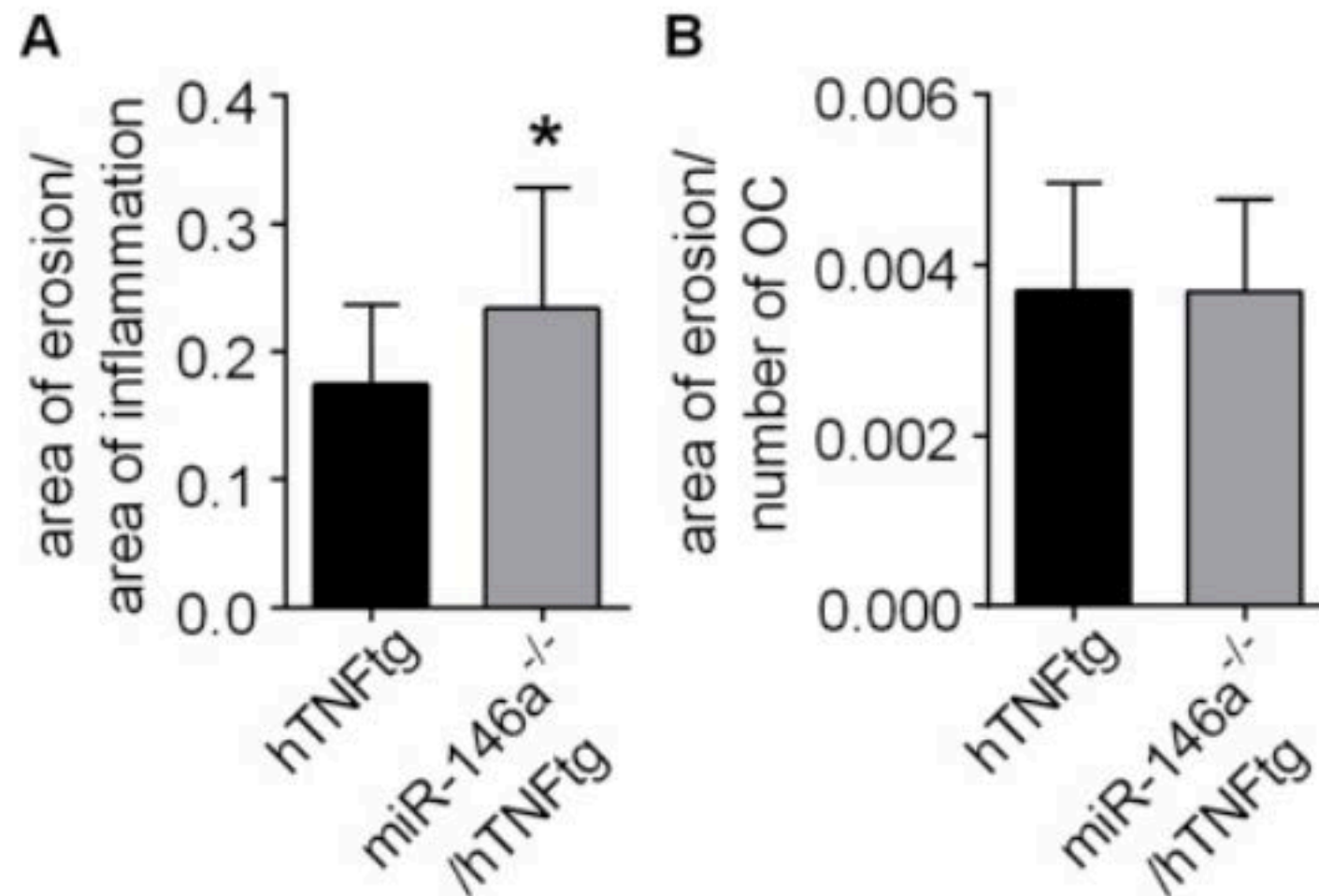


Appendix A. Supplementary data

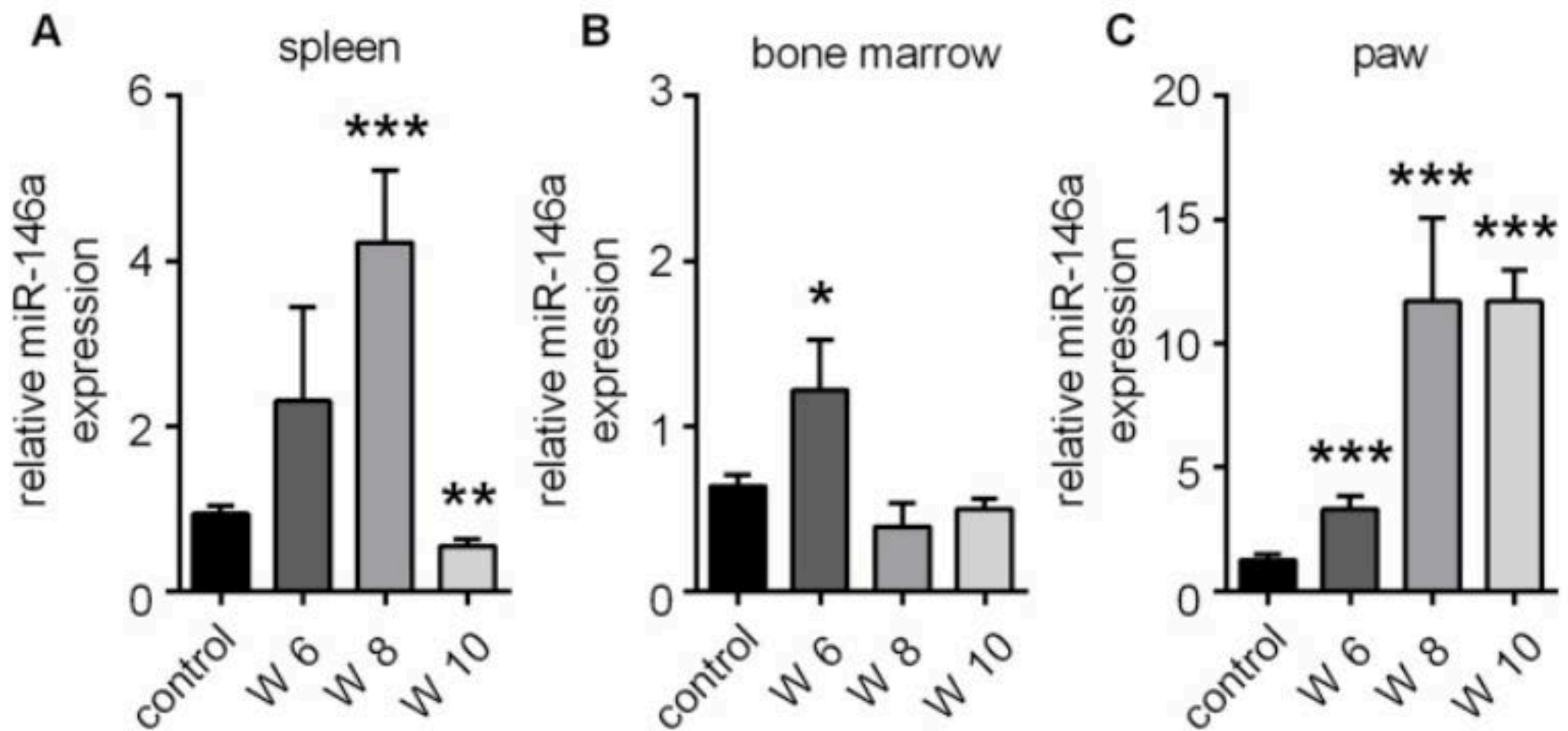
The following is the supplementary data related to this article:



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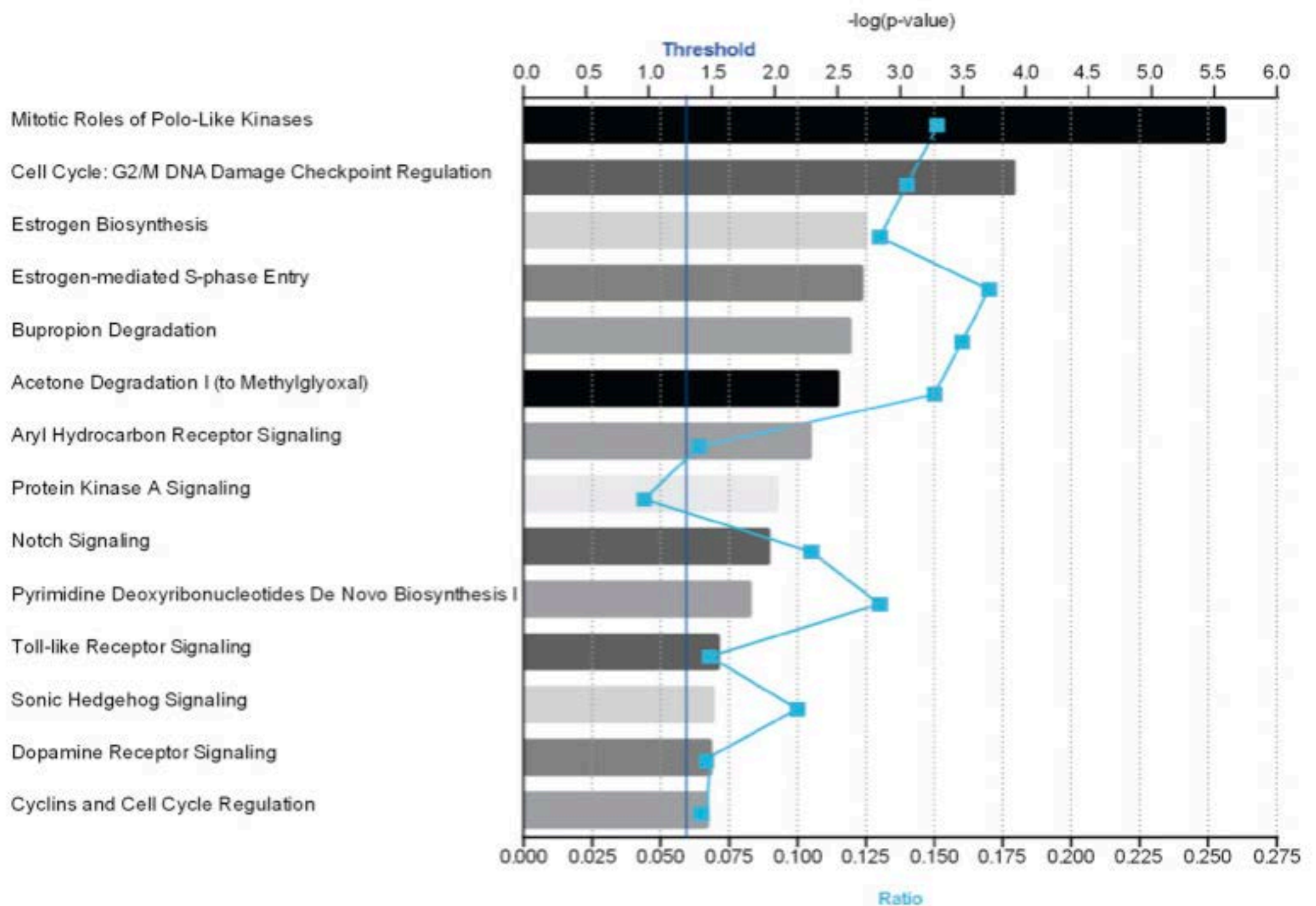
S1. Increased [osteoclast](#) numbers account for elevated bone erosion in [miR-146a^{-/-}/hTNFtg](#) animals. A, Histomorphometric analysis of the extent of area of erosion per area of inflammation and B, area of erosion per number of osteoclast; in the tarsal area of the [hind paws](#) of hTNFtg (n = 16) and miR-146a^{-/-}/hTNFtg (n = 15) mice. *p < 0,05 Results are shown as mean ± [SEM](#).



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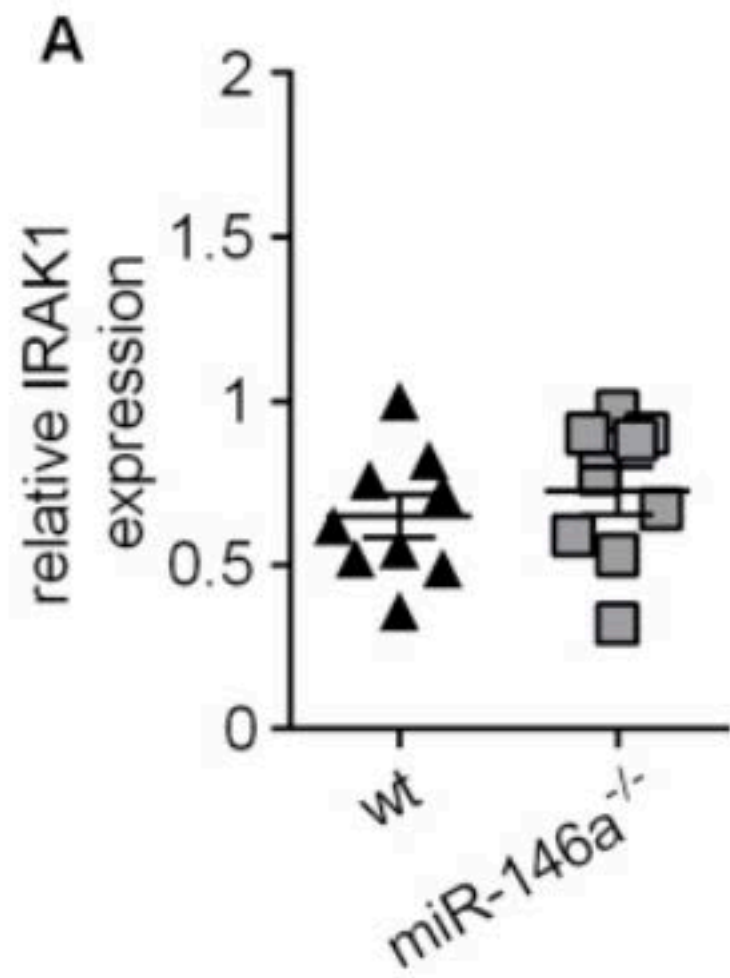
S2. Variable expression of miR-146a in lymphoid organs and locally in arthritic paws of hTNFtg animals. A-C, Quantitative [real time PCR](#) analysis of miR-146a expression in spleen- (A), bone marrow- (B) and paw cells (C). Cells were isolated at the indicated age (weeks) of hTNFtg mice (n = 4). *p < 0,05, **p < 0,01, ***p < 0,001 as indicated or versus the control. Results are shown as mean ± SEM.



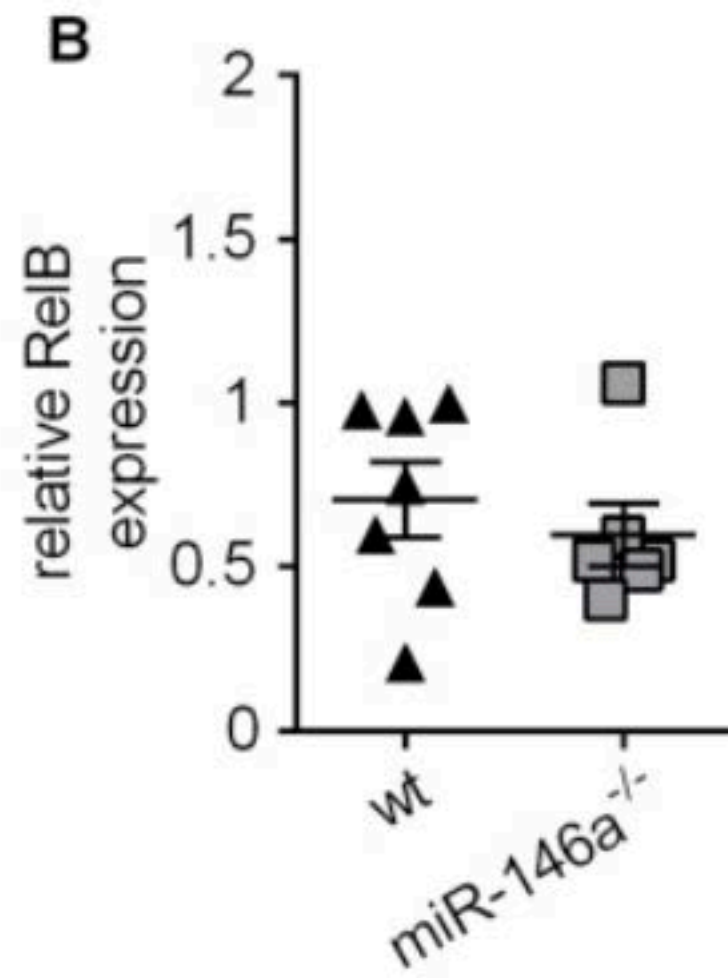
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S3. MiR-146a deficient **fibroblasts** show increased expression of genes involved in proliferation and pyrimidine synthesis. A, Pathways affected by loss of miR-146a in synovial fibroblasts as detected by ingenuity pathway analysis (IPA).

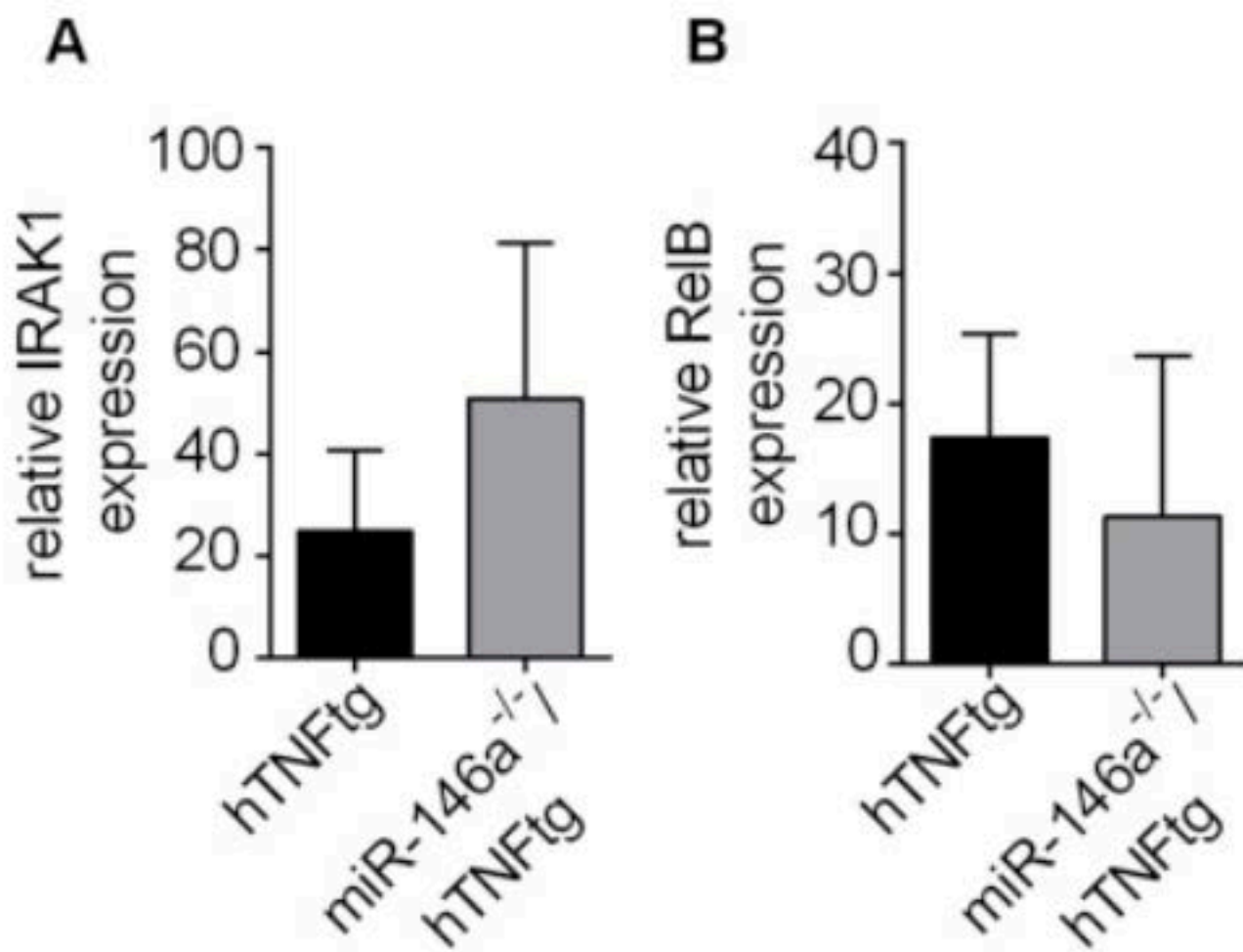


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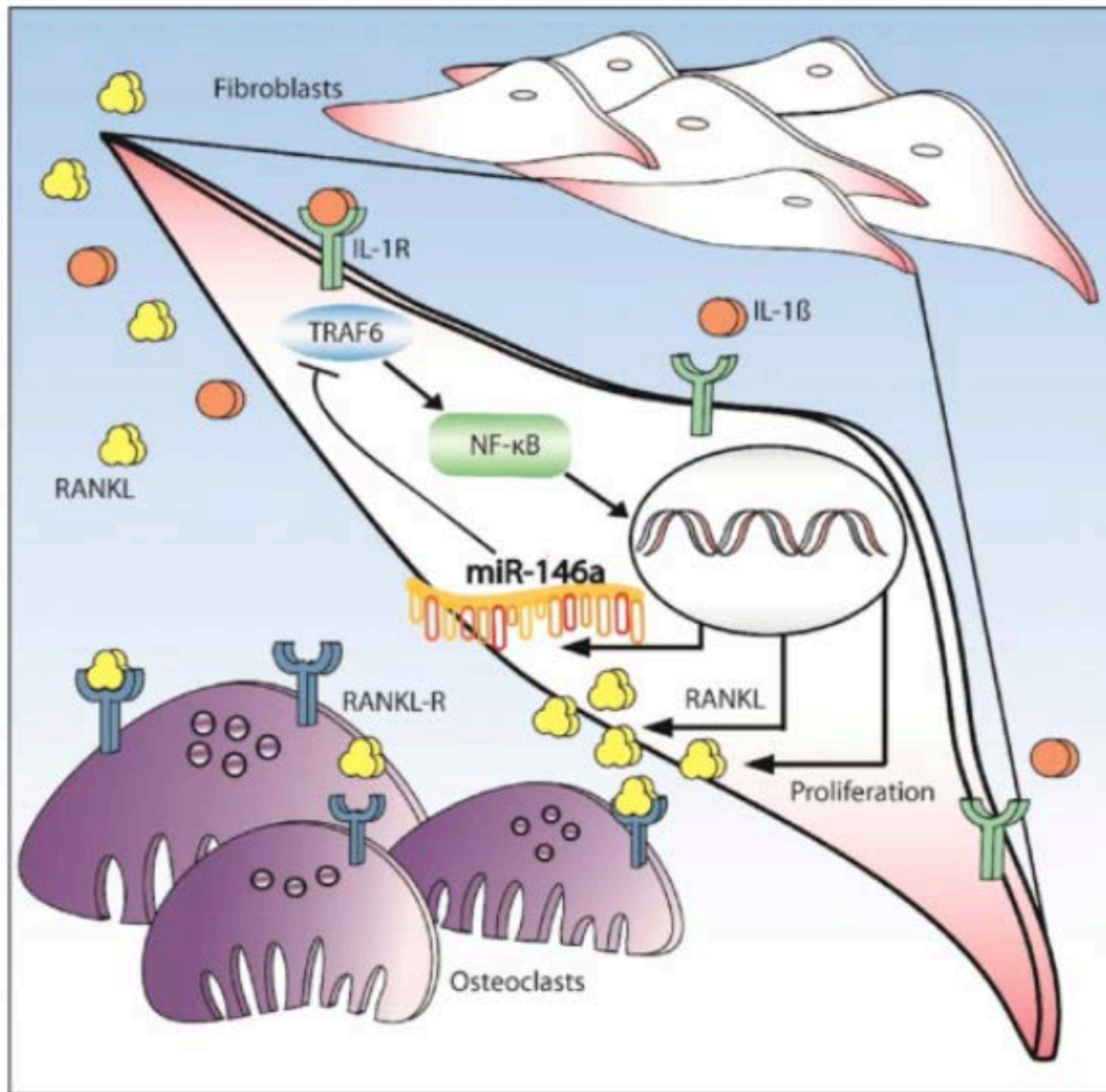
S4. MiR-146a target gene expression in synovial fibroblasts. A, Expression level of IRAK1 in synovial fibroblasts from wt (n = 9) and miR-146a^{-/-} (n = 9) animals. B, Expression level of RelB in synovial fibroblasts from wt (n = 7) and miR-146a^{-/-} (n = 6) animals were analyzed using quantitative real time PCR. Results are shown as mean ± SEM.



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S5. MiR-146a target gene expression in hind paws of hTNFtg and miR-146a^{-/-}/hTNFtg mice. A, Expression level of IRAK1 in hind paws from hTNFtg (n = 5) and miR-146a^{-/-}/hTNFtg (n = 5) animals. B, Expression level of RelB in hind paws from hTNFtg (n = 8) and miR-146a^{-/-}/hTNFtg (n = 4) animals were analyzed using quantitative real time PCR. Results are shown as mean ± SEM.



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S6. Schematically illustration of miR-146a regulatory function in synovial fibroblasts. MiR-146a acts as a negative regulator of proliferation and RANKL production in synovial fibroblasts, through controlling the target TRAF6 in the NF- κ B signaling pathway.

Gene	Sequence
TRAF6	5'-AAAGCGAGAGATTCTTTCCCTG-3' 5'-ACTGGGGACAATTCACTAGAGC-3'
IRAK1	5'-GACCAAGTATTTGAAAGACCTG-3' 5'-GTAGTGCCTCCCTGGGTACA-3'
RelB	5'-GCTGGGAATTGACCCCTACA-3' 5'-CATGTCGACCTCCTGATGGTT-3'
OPG	5'-TACCTGGAGATCGAATTCTGCTT-3' 5'-CCATCTGGACATTTTTTGCAAA-3'
RANKL	5'-TCGTGGAACATTAGCATGGA-3' 5'-CCTCTCCCAATCTGGTTCAA-3'
GAPDH	5'-TGGCATTGTGGAAGGGCTCATGAC-3' 5'-ATGCCAGTGAGCTTGCCGTTTCAGC -3'

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Supplementary Table 1. Primers used for real time PCR.