Table 1. qPCR probe sequences of miRNAs and mRNAs.
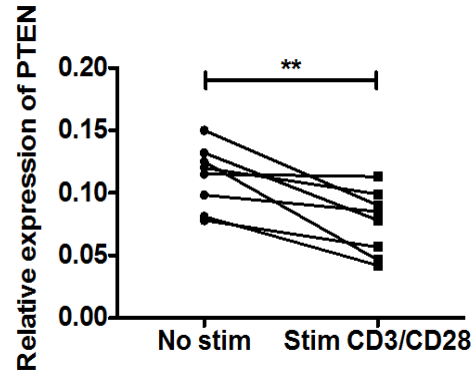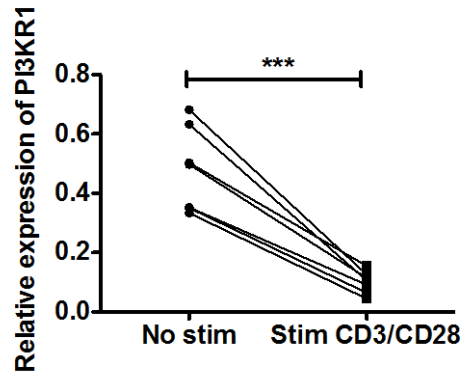
Figure S1. PI3KR1 and PTEN expression analysis. (A) CD4$^+$T cells isolated from HV samples were stimulated with CD3/CD28 antibodies *in vitro* for 24 hours. Transcriptional expression of PI3KR1 (N=7) and PTEN (n=8) were analyzed with real time RT-PCR. (B) Western blot analysis of lysates from purified CD4$^+$T cells (HV) after mitogenic stimulation with CD3/CD28 antibodies and probed for PI3KR1, PTEN, and phospho-PTEN. Actin levels were monitored as a control for loading. (C) Transcriptional expression of PI3KR1 was analyzed with real-time RT-PCR in and in CD4$^+$T cells from untreated and natalizumab treated patients (untreated: n=8; Nat. treated: n=10). ***$p<0.001$; **$p<0.01$; n.s: not significant.

Figure S2. Correlation of age with relative expression of miR-17. Non-parametric Spearman correlation, with two-tailed p-value, between miR-17 expression and age in HVs, untreated and natalizumab treated RRMS patients, was calculated. 95% confidence interval is depicted by dotted curves.
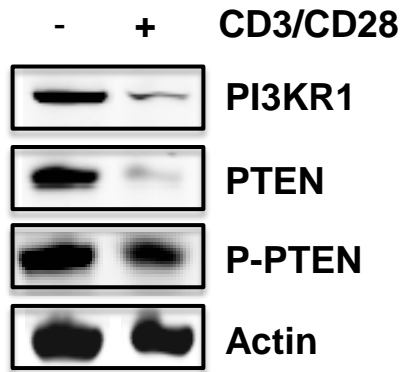
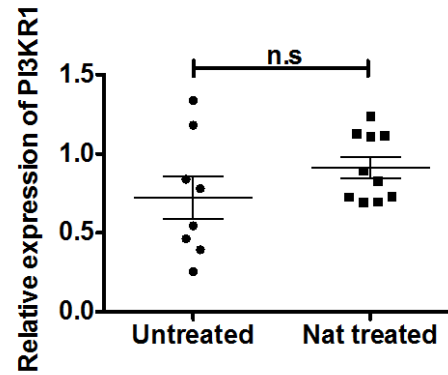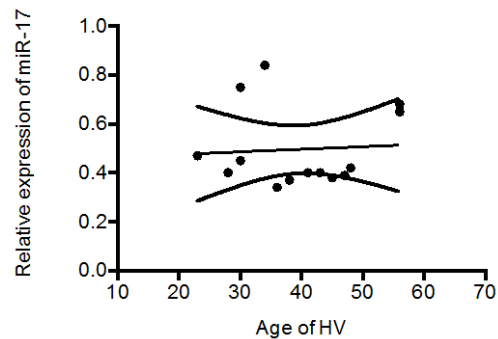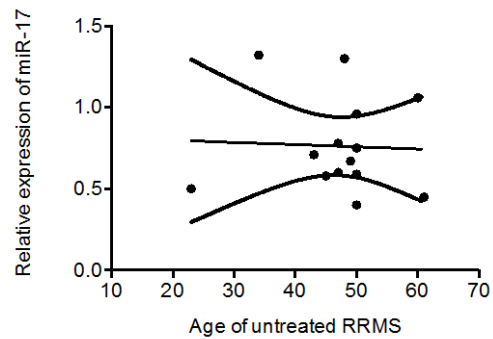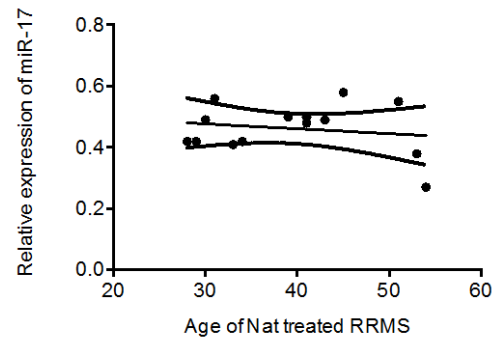|	
miR-17	CAAAGUGCUUACAGUGCAGGUAG
miR-106b	UAAAGUGCUGACAGUGCAGAU
RNU44	CCTGGATGATGATAGCAAATGCTGACTGAACATGAAGGTCTTAATTAGCTCTAACTGACT
PTEN	CCTCTTCCTCGGCTTCTCCTGAAAG
BIM	CAGTGCAATGGCTTCCATGAGGCAG
P21	CAGCATGACAGATTTCTACCACTCC
E2F1	TCCAGTGGCTGGGCAGCCACACCAC
TGFBR2	GCTCAACCACCAGGGCATCCAGATG
PI3KR1	GGGAGATATCTCGAGGGAAGAAGTG
PUM1	CTACCGCTCCGCCCGTGTTGGTGGA

Supplementary Table 1.

A.

B.

C.

Figure S1.

Spearman r	-0.07080
95% confidence interval	-0.5912 to 0.4912
P value (two-tailed)	0.8099
P value summary	ns

Spearman r	-0.1090
95% confidence interval	-0.6157 to 0.4614
P value (two-tailed)	0.7106
P value summary	ns

Spearman r	-0.02104
95% confidence interval	-0.5578 to 0.5281
P value (two-tailed)	0.9431
P value summary	ns

Figure S2.