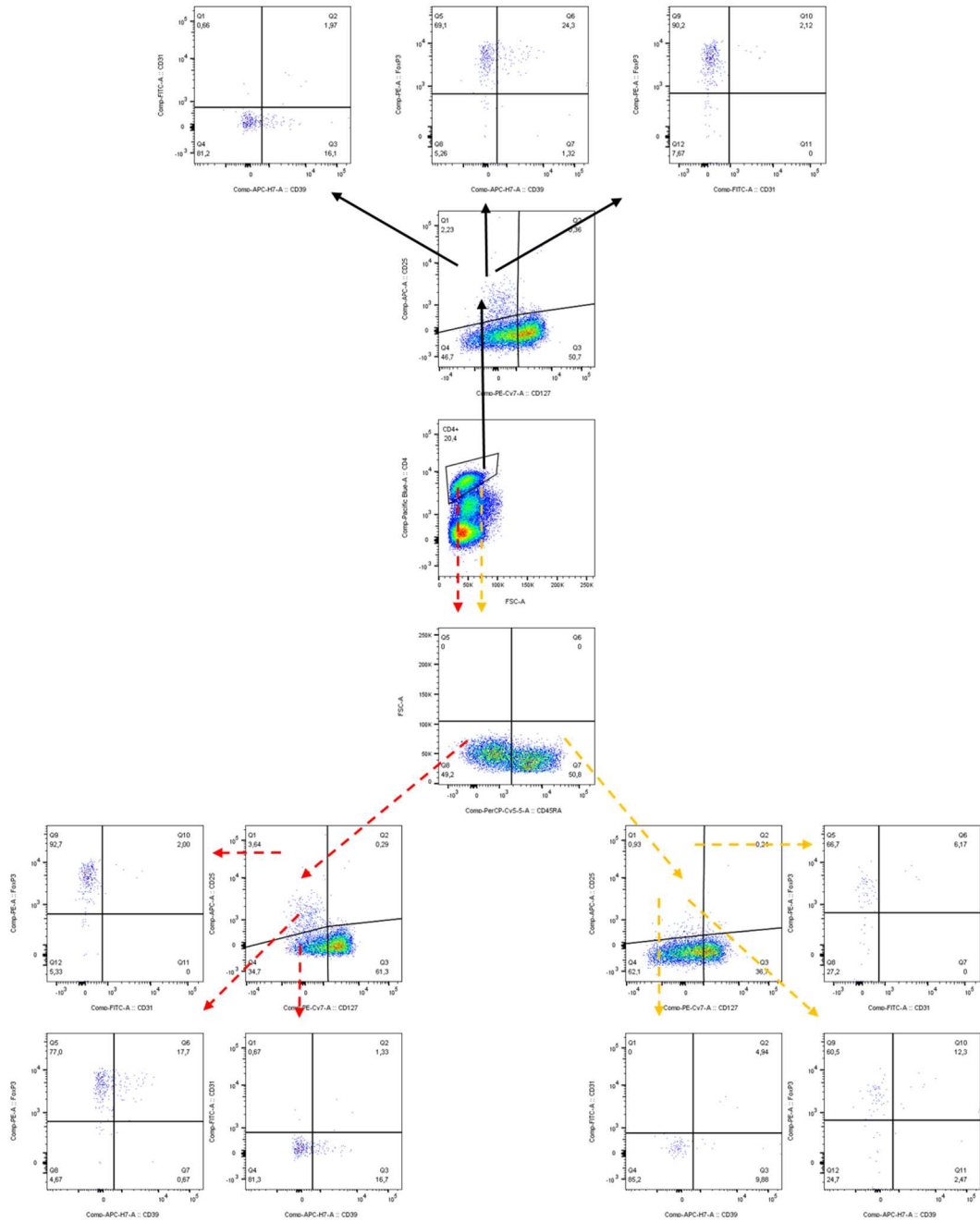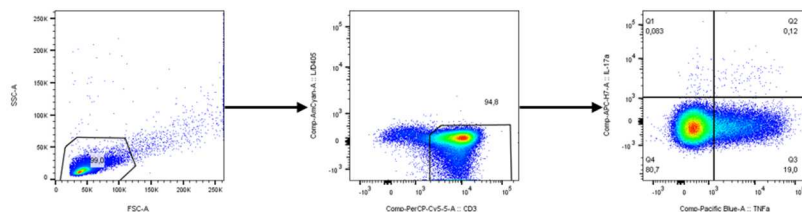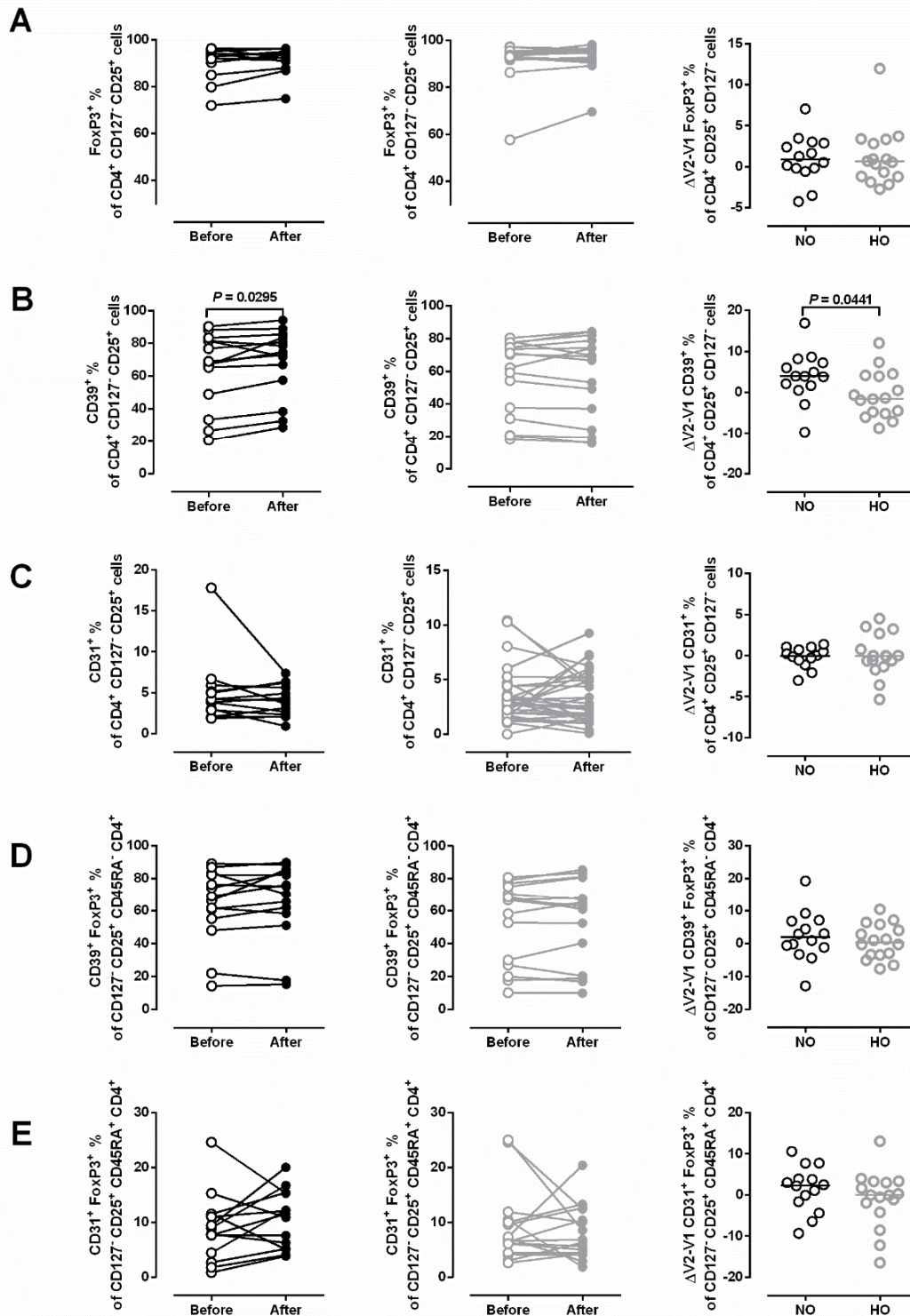**Suppl. figure 1.** Gating strategies of **(A)** Treg populations and **(B)** TNFα and IL-17A producing cells

Suppl. figure 2. Frequencies of different Treg populations
(A) FoxP3+, **(B)** CD39+ and **(C)** CD31+ of CD4+ CD127- CD25+ cells. **(D)** CD39+ FoxP3+ of CD127- CD25+ CD45RA- CD4+ cells. **(E)** CD31+ FoxP3+ of CD127- CD25+ CD45RA+ CD4+ cells. All in MS patients after 4 weeks of normoxic (NO, n = 16, black circles) and hypoxic (HO, n = 14, grey circles) treadmill training. Three samples not analyzed due to quality issues. Comparison of training effects (ΔV2-V1, right column). *P* values before vs. after training by Student´s paired t test or Wilcoxon matched-pairs signed rank test. *P* values NO vs. HO by Mann-Whitney U test or Student´s t test
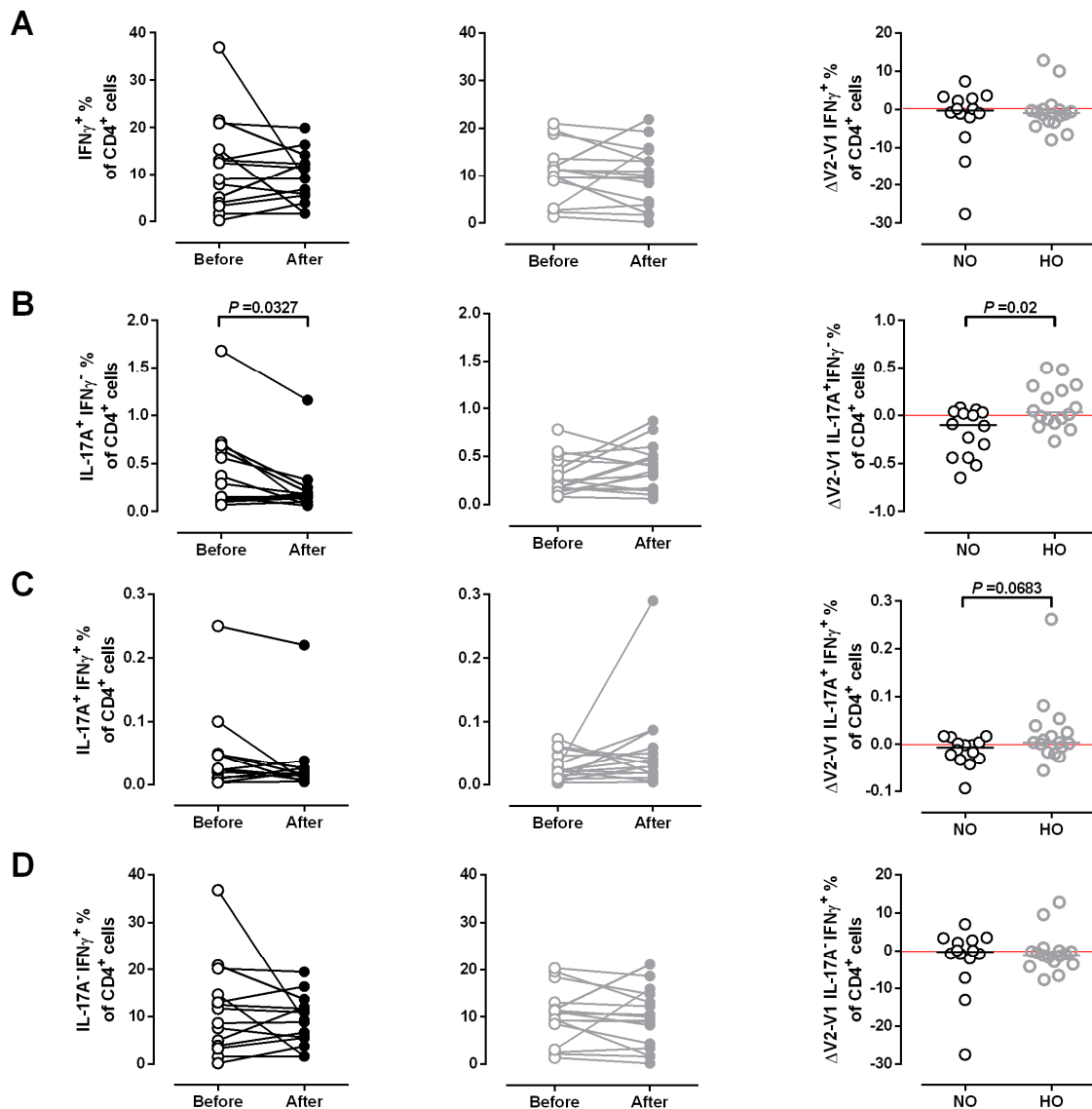
Suppl. figure 3. Frequency of IL-17A and IFN-γ producing T cells

Frequencies of **(A)** total IFN-γ+, **(B)** IL-17A+ IFN-γ-, **(C)** IL-17A+ IFN-γ+ and **(D)** IL-17A- IFN-γ+ of CD4+ cells in MS patients after 4 weeks of normoxic (NO, n = 16, black circles) and hypoxic (HO, n = 14, grey circles) treadmill training. Three samples not analyzed due to quality issues. Comparison of training effects (ΔV2-V1, right column). *P* values before vs. after training by Student´s paired t test or Wilcoxon matched-pairs signed rank test. *P* values NO vs. HO by Mann-Whitney U test or Student´s t test
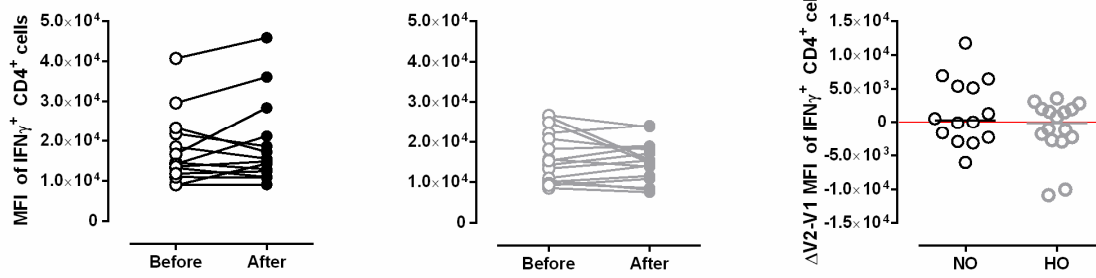
Suppl. figure 4. Median fluorescence intensity of IFN-γ-producing CD4+ T cells
Median fluorescence intensity (MFI) corresponding to the IFN-γ-labelling of CD4+ cells in MS patients after 4 weeks of normoxic (NO, n = 16, black circles) and hypoxic (HO, n = 14, grey circles) treadmill training. Three samples not analyzed due to quality issues