

Supplemental Figure S1:

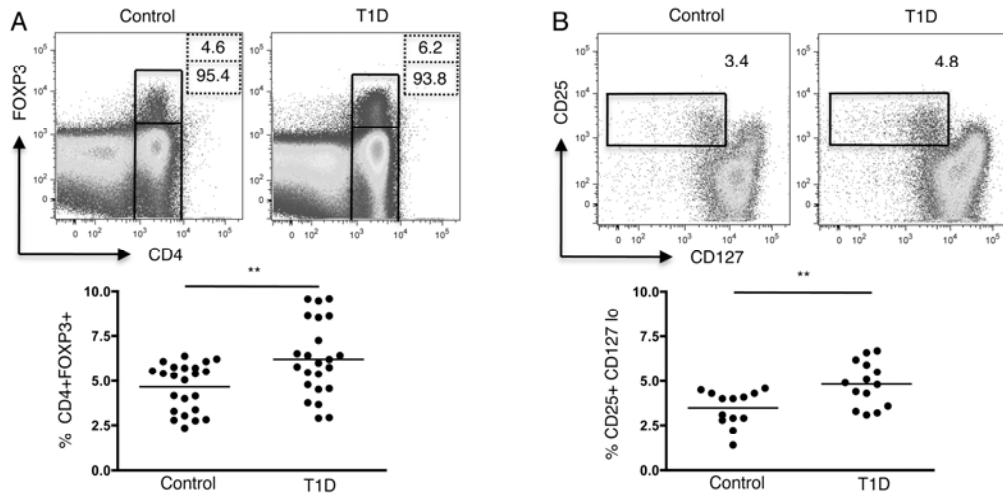


FIG. S1. New-onset T1D subjects have an increased proportion of CD4+ T cells that express markers characteristic of Treg cells. (A) The proportion of CD4+ T cells that express FOXP3 is increased in T1D subjects compared to healthy controls (T1D: $n = 23$, Control: $n = 23$, $p = 0.004$). (B) The fraction of CD4+ T cells that are CD25+CD127lo is elevated in T1D subjects relative to healthy controls (T1D: $n = 14$, Control: $n = 13$, $p = 0.005$). Representative density plots are displayed for T1D and control subjects. Percentage of CD4+CD14- T cells within each gate is shown in the top right corner of density plots.

Supplemental Figure S2:

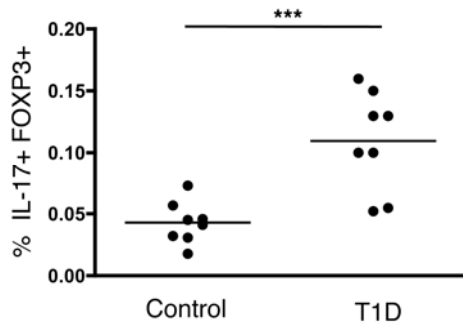


FIG. S2. New-onset T1D subjects have an increased proportion of IL-17+ FOXP3+ cells. The fraction of IL-17+FOXP3+ cells is elevated in T1D subjects relative to healthy controls (T1D: $n = 8$, Control: $n = 18$, $p = 0.0007$). PBMC were activated with anti-CD3/CD28 and after three days the capacity of FOXP3+ cells to secrete IL-17 was determined by intracellular staining.

SUPPLEMENTARY TABLE I

Baseline characteristics of the new-onset T1D subject and healthy control groups

| | T1D Subjects | Healthy Controls |
|---------------------------|--------------|------------------|
| Numbers | 64 | 53 |
| Females/males | 35/29 | 33/20 |
| Mean age (y) | 9.6 ± 0.6 | 10.2 ± 0.7 |
| Mean age of onset (y) | 9.4 ± 0.6 | N/A |
| Mean duration of T1D (m) | 2.3 ± 0.3 | N/A |
| Mean A1C | 7.9 ± 0.2 | N/A |
| WBC (x10 ⁹ /L) | 3.0 ± 0.4 | 3.0 ± 0.2 |
| % lymphocytes | 63 ± 2.4 | 63 ± 2.8 |
| % CD4+ (CD14-) T cells | 31 ± 1.2 | 31 ± 1.3 |

Supplementary Table 1. Characteristics of the new-onset T1D subject and healthy control groups from British Columbia's Children's Hospital are presented. Data are shown as the means ± standard deviation. All T1D subjects were being treated with insulin and did not show evidence of other autoimmune diseases. Age-matched subjects with no autoimmune or metabolic diseases were used as healthy controls.