

SUPPLEMENTARY DATA

**Supplementary Table 1.** Analysis of cytokines in children with islet autoimmunity (Ab Pos) vs persistently antibody negative (Ab Neg) cases

	Ab Pos		Ab Neg		Univariate GEE	Multivariate GEE*			No OOR <sup>‡</sup>
	Mean	SD	Mean	SD	<i>P</i> value <sup>†</sup>	OR	95% CI	<i>P</i> value <sup>†</sup>	
<i>Proinflammatory Cytokines</i>									
IFNa2_log	4.30	0.85	3.65	0.83	0.020	2.7	1.2 – 6.2	0.02	0
IFN $\gamma$ _log	3.52	1.50	2.85	1.42	0.059	1.5	1.0 – 2.2	0.03	1
IL-1a_log	4.27	2.00	3.18	1.56	0.015	1.4	1.1 – 2.0	0.02	14
<b>IL-1B_log</b>	<b>1.07</b>	<b>2.02</b>	<b>-0.10</b>	<b>1.29</b>	<b>0.003</b>	<b>1.6</b>	<b>1.2 – 2.1</b>	<b>0.002</b>	42
IL2_log	1.17	2.03	0.00	1.94	0.028	1.4	1.0 – 1.8	0.03	17
IL3_log	1.35	1.56	0.95	1.48	0.37	1.2	0.8 – 1.8	0.37	30
<b>IL5_log</b>	<b>-0.31</b>	<b>2.39</b>	<b>-1.96</b>	<b>1.24</b>	<b>0.007</b>	<b>1.6</b>	<b>1.2 – 2.4</b>	<b>0.007</b>	4
IL6_log	1.88	2.11	1.19	1.70	0.16	1.3	0.9 – 1.7	0.11	18
<b>IL7_log</b>	<b>2.98</b>	<b>1.53</b>	<b>2.01</b>	<b>1.32</b>	<b>0.007</b>	<b>1.7</b>	<b>1.2 – 2.6</b>	<b>0.008</b>	23
IL9_log	2.19	1.60	1.55	1.35	0.096	1.4	0.9 – 1.9	0.10	8
IL12p40_	3.98	1.71	3.56	1.48	0.31	1.2	0.9 – 1.7	0.30	7
<b>IL12p70_log</b>	<b>2.40</b>	<b>1.62</b>	<b>1.14</b>	<b>1.44</b>	<b>0.003</b>	<b>1.8</b>	<b>1.2 – 2.6</b>	<b>0.003</b>	14
IL15_log	1.70	2.20	0.68	1.86	0.044	1.3	1.0 – 1.6	0.04	30
<b>IL16_log</b>	<b>4.89</b>	<b>1.43</b>	<b>3.81</b>	<b>1.35</b>	<b>0.001</b>	<b>2.1</b>	<b>1.4 – 3.0</b>	<b>&lt;0.001</b>	4
<b>IL17_log</b>	<b>2.49</b>	<b>0.80</b>	<b>1.77</b>	<b>1.04</b>	<b>0.01</b>	<b>3.1</b>	<b>1.4 – 7.1</b>	<b>0.006</b>	24
<b>IL21_log</b>	<b>1.83</b>	<b>1.59</b>	<b>1.14</b>	<b>0.52</b>	<b>0.009</b>	<b>2.4</b>	<b>1.3 – 4.7</b>	<b>0.009</b>	0
IL23_log	6.86	3.00	5.50	2.03	0.025	1.3	1.1 – 1.6	0.012	11
IL33_log	4.11	2.73	2.81	1.89	0.027	1.3	1.0 – 1.6	0.03	27
LIF_log	2.73	2.84	1.09	2.55	0.017	1.3	1.1 – 1.6	0.02	24
sCD40L_log	8.20	0.80	7.60	1.02	0.012	2.2	1.2 – 4.1	0.02	0
sIL2Ra	233.7	176.6	242.5	164.4	0.84	1.0	0.997 – 1.003	0.84	3
<b>TNFa_log</b>	<b>3.22</b>	<b>0.88</b>	<b>2.62</b>	<b>0.58</b>	<b>0.005</b>	<b>4.1</b>	<b>1.5 – 10.9</b>	<b>0.005</b>	0
TNFB_log	2.00	1.86	1.22	1.10	0.12	1.4	1.0 – 2.0	0.04	44
TRAIL_log	3.98	1.40	3.08	1.81	0.072	1.5	1.0 – 2.2	0.05	6
<i>Anti-inflammatory Cytokines</i>									
IL1ra_log	3.24	1.68	2.45	1.30	0.051	1.5	1.0 – 2.2	0.05	9
IL4_log	0.23	1.83	-0.41	0.63	0.10	1.7	1.0 – 2.8	0.06	66
IL10_log	2.33	1.81	2.01	1.58	0.52	1.2	0.8 – 1.7	0.38	5
IL13_log	2.16	2.68	0.70	2.01	0.015	1.3	1.1 – 1.7	0.018	33
<b>IL20_log</b>	<b>5.60</b>	<b>1.54</b>	<b>4.77</b>	<b>1.13</b>	<b>0.01</b>	<b>1.6</b>	<b>1.1 – 2.4</b>	<b>0.01</b>	19
<b>IL28A_log</b>	<b>4.56</b>	<b>1.71</b>	<b>3.26</b>	<b>1.59</b>	<b>0.003</b>	<b>1.8</b>	<b>1.2 – 2.7</b>	<b>0.004</b>	6

\*Analysis performed using generalised estimating equations (GEE), adjusting for high-risk HLA genotype status

<sup>†</sup>Cytokines significantly associated with islet autoimmunity at  $P \leq 0.01$  are shown in bold

<sup>‡</sup>Number of out of range (OOR) samples for each cytokine

SUPPLEMENTARY DATA

**Supplementary Table 2.** Analysis of chemokines and growth factors in children with islet autoimmunity (Ab Pos) vs persistently antibody negative (Ab Neg) cases

	Ab Pos		Ab Neg		Univariate GEE	Multivariate GEE*			No OOR <sup>‡</sup>
	Mean	SD	Mean	SD	<i>P</i> value <sup>†</sup>	OR	95% CI	<i>P</i> value	
<b>Chemokines</b>									
CCL1_log	1.95	1.02	1.31	0.85	0.015	2.4	1.2 – 4.7	0.015	5
CCL2_MCP1	5.94	0.45	5.79	0.46	0.22	2.1	0.8 – 5.9	0.15	0
CCL3_MIP1a_log	3.74	1.43	3.16	1.42	0.08	1.4	1.0 – 1.9	0.08	15
CCL4_MIP1b_log	4.65	0.67	4.24	0.73	0.02	3.2	1.2 – 8.6	0.02	0
CCL5_RANTES_log	7.62	0.70	7.67	1.17	0.82	0.9	0.6 – 1.5	0.82	0
CCL7_MCP3_log	3.14	2.26	1.97	1.54	0.019	1.4	1.1 – 1.9	0.02	30
CCL8_MCP2_log	2.52	0.85	2.03	0.82	0.034	2.3	1.2 – 4.5	0.016	1
CCL11_EOTAXIN_log	5.19	0.52	4.91	0.71	0.14	2.1	0.8 – 5.4	0.14	4
<b>CCL13_MCP4_log</b>	<b>4.97</b>	<b>0.44</b>	<b>4.64</b>	<b>0.38</b>	<b>0.001</b>	<b>8.7</b>	<b>2.2 – 34.4</b>	<b>0.002</b>	0
CCL15_MIP1d	2272	1192	2598	851	0.89	1.1	0.3 – 3.9	0.89	0
CCL17_TARC_log	4.54	0.81	4.27	0.87	0.18	1.5	0.8 – 2.6	0.18	0
CCL21_Ckine6_log	6.77	1.19	6.31	0.47	0.042	2.4	1.1 – 5.2	0.03	0
CCL22_MDC	2203	1183	1980	722	0.57	2.1	0.6 – 7.0	0.22	0
CCL24_log	6.39	0.81	6.23	1.22	0.51	1.2	0.7 – 1.8	0.51	0
<b>CCL26_EOTAXIN33_log</b>	<b>3.59</b>	<b>1.99</b>	<b>2.29</b>	<b>1.42</b>	<b>0.002</b>	<b>1.6</b>	<b>1.2 – 2.1</b>	<b>0.002</b>	17
CCL27_CTACK	760	240	717	211	0.40	1.8	0.4 – 8.3	0.43	0
CXCL1_GRO_log	6.78	0.76	6.52	0.55	0.10	1.8	0.9 – 3.8	0.1	0
<b>CXCL5_ENA78_log</b>	<b>6.32</b>	<b>0.75</b>	<b>5.72</b>	<b>1.04</b>	<b>0.009</b>	<b>2.7</b>	<b>1.4 – 5.5</b>	<b>0.006</b>	0
CXCL8_IL8_log	2.52	0.85	2.03	0.82	0.034	2.3	1.2 – 4.5	0.02	3
CXCL10_IP10_log	6.06	0.98	5.90	0.84	0.44	1.3	0.7 – 2.1	0.44	1
CXCL12_log_SDF-1a+β	8.58	1.07	8.14	0.43	0.027	2.8	1.1 – 7.1	0.03	0
CXCL13_log_BCA1	3.90	0.59	3.72	0.48	0.18	1.9	0.7 – 5.0	0.18	0
CX3CL1_Fractalkine_log	5.78	0.93	5.45	0.53	0.31	2.1	0.5 – 8.7	0.31	2
<b>Growth Factors</b>									
EGF_log	4.32	1.34	3.34	1.24	0.011	2.1	1.2 – 3.7	0.014	6
FGF2_log	3.74	1.02	3.21	1.07	0.10	1.7	0.9 – 3.3	0.1	6
FLT3ligand_log	1.84	1.16	1.22	0.64	0.012	2.2	1.2 – 4.0	0.012	51
GCSF	55.9	31.3	42.8	27.4	0.079	1.02	1.0 – 1.04	0.04	1
<b>GMCSF_log</b>	<b>5.76</b>	<b>1.32</b>	<b>4.69</b>	<b>1.62</b>	<b>0.008</b>	<b>1.6</b>	<b>1.1 – 2.4</b>	<b>0.008</b>	1
PDGFAA_log	7.29	0.77	6.84	0.92	0.022	1.9	1.1 – 3.3	0.02	1
PDGFAABB_log	7.94	0.63	7.54	0.99	0.032	1.8	1.1 – 3.1	0.03	1
SCF_log	3.29	2.23	2.54	1.46	0.10	1.3	1.0 – 1.7	0.1	9
TGFa_log	2.38	1.92	1.39	1.70	0.022	1.4	1.1 – 1.8	0.02	12
<b>TPO_log</b>	<b>5.95</b>	<b>2.93</b>	<b>4.68</b>	<b>2.19</b>	<b>0.054</b>	<b>1.3</b>	<b>1.1 – 1.6</b>	<b>0.01</b>	30
TSLP_log	1.53	3.92	0.21	3.06	0.14	1.2	1.0 – 1.4	0.05	39
VEGF_log	5.40	0.83	4.83	1.05	0.027	2.3	1.2 – 4.4	0.015	2

\*Analysis performed using generalised estimating equations (GEE), adjusting for high-risk HLA genotype status

†Chemokines and growth factors significantly associated with islet autoimmunity at  $P \leq 0.01$  are shown in bold

‡Number of out of range (OOR) samples

SUPPLEMENTARY DATA

**Supplementary Table 3.** Analysis of cytokines in children with Enterovirus infection (EV+) vs negative for EV and other viruses on multiplex PCR (EV-)

	EV Pos		EV Neg		<i>P value</i> *
	Mean	SD	Mean	SD	
<b><i>Pro-inflammatory Cytokines</i></b>					
IFNa2_log	3.80	0.88	4.12	0.89	0.13
IFN $\gamma$ _log	3.23	1.10	3.09	1.83	0.71
IL-1a_log	3.74	1.35	3.61	2.25	0.76
IL-1 $\beta$ _log	0.54	1.52	0.33	1.98	0.62
IL2_log	0.76	1.80	0.33	2.29	0.38
IL3_log	1.39	1.15	0.90	1.78	0.17
IL5_log	-1.40	1.81	-1.00	2.22	0.41
IL6_log	1.60	1.53	1.41	2.27	0.69
IL7_log	2.46	1.37	2.43	1.62	0.94
IL9_log	1.59	1.39	2.11	1.58	0.14
IL12p40_	3.77	1.35	3.75	1.84	0.96
IL12p70_log	1.86	1.41	1.58	1.85	0.33
IL15_log	1.40	1.79	0.91	2.35	0.96
IL16_log	4.31	0.77	4.30	1.96	0.24
IL17_log	2.22	0.75	2.07	1.23	0.62
<b>IL21_log</b>	<b>1.30</b>	<b>0.75</b>	<b>1.60</b>	<b>1.50</b>	<b>0.008</b>
IL23_log	6.20	1.97	6.04	3.13	0.80
IL33_log	3.54	1.93	3.27	2.79	0.63
LIF_log	2.26	2.23	1.42	3.23	0.20
sCD40L_log	7.98	1.01	7.79	0.92	0.40
sIL2Ra	216	156	260	180	0.27
TNFa_log	2.89	0.55	2.92	1.00	0.85
TNF $\beta$ _log	1.51	1.14	1.67	1.89	0.66
TRAIL_log	3.33	1.66	3.66	1.72	0.41
<b><i>Anti-inflammatory Cytokines</i></b>					
IL1ra_log	2.78	1.31	2.87	1.76	0.80
IL4_log	-0.33	0.78	0.11	1.75	0.17
<b>IL10_log</b>	<b>2.75</b>	<b>0.99</b>	<b>1.57</b>	<b>2.02</b>	<b>0.002</b>
IL13_log	1.63	1.97	1.12	2.82	0.38
IL20_log	5.33	0.89	4.98	1.75	0.29
IL28A_log	4.07	1.17	3.64	2.20	0.30

Analysis performed using generalised estimating equations

\*Cytokines significantly associated with islet autoimmunity at  $P \leq 0.01$  are shown in bold

SUPPLEMENTARY DATA

**Supplementary Table 4.** Analysis of chemokines and growth factors in children with Enterovirus infection (EV+) vs negative for EV and other viruses on multiplex PCR (EV-)

	EV Pos		EV Neg		<i>P value*</i>
	Mean	SD	Mean	SD	
<b><i>Chemokines</i></b>					
CCL1_log	1.61	0.83	1.60	1.13	0.97
CCL2_MCP1	365	148	405	184	0.32
CCL3_MIP1a_log	3.53	1.15	3.32	1.70	0.54
CCL4_MIP1b_log	4.39	0.75	4.47	0.72	0.64
CCL5_RANTES_log	7.62	0.81	7.67	1.12	0.85
CCL7_MCP3_log	2.53	1.43	2.51	2.47	0.97
CCL8_MCP2_log	2.14	0.68	2.38	1.01	0.23
CCL11_EOTAXIN_log	5.02	0.51	5.06	0.76	0.83
CCL13_MCP4_log	4.87	0.41	4.72	0.46	0.17
CCL15_MIP1d	2841	1183	2471	791	0.12
CCL17_TARC_log	4.47	0.78	4.31	0.92	0.41
CCL21_Ckine6_log	6.47	0.44	6.58	1.20	0.61
CCL22_MDC_log	7.62	0.42	7.48	0.46	0.18
CCL24_log	6.43	0.69	6.18	1.31	0.30
CCL26_EOTAXIN33_log	3.02	1.38	2.76	2.18	0.54
CCL27_CTACK	747	233	726	217	0.68
CXCL1_GRO_log	6.59	0.57	6.70	0.77	0.52
CXCL5_ENA78_log	6.06	0.87	5.93	1.05	0.55
CXCL8_IL8_log	2.14	0.68	2.38	1.01	0.23
CXCL10_IP10_log	5.97	0.72	5.98	1.07	0.96
CXCL12_log_SDF-1a+β	8.17	0.41	8.51	1.06	0.07
CXCL13_log_BCA1	3.96	0.42	3.63	0.59	0.19
CX3CL1_Fractalkine_log	5.58	0.81	5.62	0.70	0.82
<b><i>Growth Factors</i></b>					
EGF_log	3.85	1.38	3.75	1.37	0.75
FGF2_log	3.50	0.84	3.42	1.29	0.78
FLT3ligand_log	1.38	0.74	1.64	1.15	0.27
GCSF	53.0	22.4	44.6	35.7	0.23
GMCSF_log	4.98	1.45	5.41	1.68	0.25
PDGFAA_log	7.16	0.86	6.93	0.88	0.25
PDGFAABB_log	7.87	0.86	7.57	0.86	0.14
SCF_log	2.63	1.26	3.13	2.33	0.26
TGFa_log	2.08	1.50	1.60	2.16	0.28
TPO_log	5.48	2.11	5.04	3.05	0.47
TSLP_log	1.23	3.08	0.40	3.90	0.31
VEGF_log	5.31	0.73	4.86	1.17	0.05

Analysis performed using generalised estimating equations

\*Cytokines significantly associated with islet autoimmunity at  $P \leq 0.01$  are shown in bold

SUPPLEMENTARY DATA

**Supplementary Table 5.** Analysis of cytokines in children with islet autoimmunity and/or enterovirus infection

	Ab+EV+		Ab-EV+		Ab+EV-		Ab-EV-		P value*
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
<i>Pro-inflammatory Cytokines</i>									
<b>IFN<math>\alpha</math>2_log</b>	<b>4.12</b>	<b>0.89</b>	<b>3.55</b>	<b>0.82</b>	<b>4.46</b>	<b>0.80</b>	<b>3.77</b>	<b>0.85</b>	<b>0.008</b>
IFN $\gamma$ _log	3.23	1.10	3.23	1.12	3.76	1.76	2.34	1.64	0.045
IL-1 $\alpha$ _log	3.98	1.39	3.57	1.33	4.51	2.40	2.71	1.72	0.025
IL-1 $\beta$ _log	1.00	1.68	0.19	1.31	1.12	2.33	-0.41	1.23	0.022
IL2_log	1.08	1.92	0.51	1.70	1.26	2.16	-0.60	2.07	0.027
IL3_log	1.59	0.97	1.24	1.28	1.15	1.93	0.65	1.64	0.36
<b>IL5_log</b>	<b>-0.71</b>	<b>2.17</b>	<b>-1.90</b>	<b>1.35</b>	<b>0.03</b>	<b>2.58</b>	<b>-2.03</b>	<b>1.14</b>	<b>0.003</b>
IL6_log	1.85	1.80	1.42	1.32	1.90	2.38	0.90	2.08	0.39
IL7_log	2.85	1.51	2.18	1.22	3.10	1.59	1.84	1.43	0.037
IL9_log	1.76	1.46	1.48	1.36	2.55	1.66	1.65	1.38	0.13
IL12p40_log	3.94	1.17	3.64	1.48	4.02	2.10	3.46	1.53	0.72
<b>IL12p70_log</b>	<b>2.37</b>	<b>1.18</b>	<b>1.50</b>	<b>1.48</b>	<b>2.43</b>	<b>1.94</b>	<b>0.73</b>	<b>1.31</b>	<b>0.004</b>
IL15_log	1.85	1.86	1.07	1.71	1.57	2.50	0.16	1.98	0.11
<b>IL16_log</b>	<b>4.56</b>	<b>0.76</b>	<b>4.12</b>	<b>0.73</b>	<b>5.18</b>	<b>1.81</b>	<b>3.46</b>	<b>1.76</b>	<b>0.003</b>
IL17_log	1.46	2.04	0.61	2.20	1.23	2.38	-0.63	2.01	0.013
IL21_log	1.41	0.94	1.22	0.58	2.20	1.95	1.04	0.44	0.014
IL23_log	6.28	2.20	6.14	1.82	7.37	3.54	4.78	2.06	0.022
IL33_log	3.93	2.13	3.25	1.77	4.27	3.22	2.33	1.95	0.066
<b>LIF_log</b>	<b>2.45</b>	<b>2.26</b>	<b>2.11</b>	<b>2.26</b>	<b>2.97</b>	<b>3.32</b>	<b>-0.04</b>	<b>2.42</b>	<b>0.004</b>
sCD40L_log	8.18	0.91	7.82	1.08	8.22	0.71	7.35	0.92	0.021
sIL2Ra	225	205	210	114	241	155	278	204	0.64
<b>TNF<math>\alpha</math>_log</b>	<b>3.05</b>	<b>0.47</b>	<b>2.76</b>	<b>0.58</b>	<b>3.38</b>	<b>1.12</b>	<b>2.44</b>	<b>.55</b>	<b>0.003</b>
TNF $\beta$ _log	1.75	1.25	1.34	1.05	2.21	2.25	1.07	1.17	0.14
TRAIL_log	3.85	.86	2.94	2.01	4.09	1.77	3.25	1.61	0.13
<i>Anti-inflammatory Cytokines</i>									
IL1 $\alpha$ _log	2.95	1.54	2.64	1.13	3.50	1.80	2.21	1.49	0.082
IL4_log	-0.34	0.68	-0.32	0.86	0.73	2.35	-0.51	0.00	0.021
IL10_log	3.00	0.99	2.56	0.97	1.77	2.15	1.37	1.91	0.016
IL13_log	2.17	2.01	1.24	1.90	2.16	3.19	0.08	1.99	0.031
<b>IL20_log</b>	<b>5.39</b>	<b>0.89</b>	<b>5.27</b>	<b>0.91</b>	<b>5.78</b>	<b>1.95</b>	<b>4.22</b>	<b>1.11</b>	<b>0.003</b>
<b>IL28A_log</b>	<b>4.26</b>	<b>1.08</b>	<b>3.93</b>	<b>1.23</b>	<b>4.83</b>	<b>2.12</b>	<b>2.52</b>	<b>1.64</b>	<b>&lt;0.001</b>

\*Analysis performed using ANOVA, comparing four groups: Ab+EV+, Ab-EV+, Ab+EV-, Ab-Ev- Cytokines significantly associated with islet autoimmunity at  $P \leq 0.01$  are shown in bold

SUPPLEMENTARY DATA

**Supplementary Table 6.** Analysis of chemokines and growth factors in children with islet autoimmunity and/or enterovirus infection

	Ab+EV+		Ab-EV+		Ab+EV-		Ab-EV-		P value*
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	
<i>Chemokines</i>									
CCL1_log	1.80	0.58	1.46	0.96	2.08	1.30	1.14	0.71	0.019
CCL2_MCP1	5.97	0.41	5.70	0.44	5.91	0.50	5.88	0.47	0.31
CCL3_MIP1a_log	3.65	1.03	3.45	1.25	3.82	1.72	2.81	1.56	0.18
CCL4_MIP1b_log	4.58	0.32	4.25	0.92	4.71	0.86	4.23	0.45	0.11
CCL5_RANTES_log	7.62	0.50	7.62	1.00	7.61	0.85	7.72	1.36	0.99
CCL7_MCP3_log	2.86	1.41	2.30	1.43	3.37	2.80	1.54	1.61	0.045
CCL8_MCP2_log	2.40	0.49	1.95	0.74	2.61	1.06	2.14	0.91	0.085
CCL11_EOTAXIN_log	5.13	0.36	4.95	0.59	5.23	0.63	4.86	0.86	0.31
<b>CCL13_MCP4_log</b>	<b>5.00</b>	<b>0.49</b>	<b>4.76</b>	<b>0.32</b>	<b>4.95</b>	<b>0.41</b>	<b>4.51</b>	<b>0.42</b>	<b>0.002</b>
CCL15_MIP1d	2962	1511	2748	886	2510	801	2434	802	0.41
CCL17_TARC_log	4.54	0.71	4.42	0.84	4.54	0.91	4.09	0.90	0.35
CCL21_Ckine6_log	6.60	0.47	6.37	0.38	6.92	1.58	6.25	0.55	0.11
CCL22_MDC_log	7.69	0.48	7.57	0.37	7.50	0.48	7.45	0.46	0.47
CCL24_log	6.38	0.69	6.47	0.70	6.40	0.92	5.97	1.60	0.44
<b>CCL26_EOTAXIN33_log</b>	<b>3.36</b>	<b>1.36</b>	<b>2.76</b>	<b>1.37</b>	<b>3.80</b>	<b>2.44</b>	<b>1.77</b>	<b>1.33</b>	<b>0.003</b>
CCL27_CTACK_log	794	304	711	160	729	168	722	260	0.84
CXCL1_GRO_log	6.67	0.52	6.54	0.61	6.88	0.93	6.50	0.50	0.33
CXCL5_ENA78_log	6.38	0.71	5.82	0.92	6.26	0.81	5.61	1.17	0.048
CXCL8_IL8_log	2.40	0.49	1.95	0.74	2.61	1.06	2.14	0.91	0.085
CXCL10_IP10_log	5.86	0.67	6.05	0.77	6.24	1.19	5.72	0.91	0.33
CXCL12_log_SDF-1a+β	8.28	0.30	8.09	0.47	8.84	1.41	8.20	0.38	0.021
CXCL13_log_BCA1	4.05	0.49	3.90	0.34	3.75	0.65	3.52	0.53	0.019
CX3CL1_Fractalkine_log	5.57	1.14	5.58	0.48	5.95	0.69	5.28	0.55	0.064
<i>Growth factors</i>									
EGF_log	4.57	1.07	3.31	1.37	4.11	1.54	3.39	1.10	0.013
FGF2_log	3.64	0.85	3.39	0.83	3.82	1.17	2.98	1.31	0.12
FLT3ligand_log	1.59	0.86	1.23	0.61	2.05	1.35	1.20	0.69	0.023
GCSF	57.9	22.5	49.3	22.2	54.1	38.0	35.2	31.5	0.12
<b>GMCSF_log</b>	<b>5.24</b>	<b>0.93</b>	<b>4.78</b>	<b>1.75</b>	<b>6.23</b>	<b>1.46</b>	<b>4.59</b>	<b>1.51</b>	<b>0.006</b>
PDGFAA_log	7.45	0.77	6.96	0.89	7.16	0.77	6.71	0.95	0.089
PDGFAABB_log	8.06	0.59	7.74	1.00	7.84	0.66	7.32	0.96	0.077
SCF_log	2.87	1.23	2.45	1.28	3.67	2.83	2.63	1.66	0.21
TGFa_log	2.30	1.38	1.93	1.60	2.45	2.32	0.75	1.63	0.025
TPO_log	5.55	2.46	5.43	1.87	6.30	3.32	3.85	2.25	0.031
TSLP_log	1.29	3.27	1.18	3.01	1.73	4.50	-0.86	2.81	0.11
<b>VEGF_log</b>	<b>5.56</b>	<b>0.57</b>	<b>5.14</b>	<b>0.79</b>	<b>5.26</b>	<b>1.00</b>	<b>4.46</b>	<b>1.22</b>	<b>0.009</b>

\*Analysis performed using ANOVA, comparing four groups: Ab+EV+, Ab-EV+, Ab+EV-, Ab-EV-  
Chemokines and growth factors significantly associated with islet autoimmunity at  $P \leq 0.01$  are shown in bold