

Table S1. Mucosal cytokine responses to *in vivo* ZIKV exposure¹.

Tissue: Colorectal

ZIKV challenge	Cytokine	Virus vs. Ctrl FC	P value
Subcutaneous	GM-CSF	0.399	0.27370
	IFN- γ	0.567	0.35040
	IL-2	0.920	0.79758
	IL-15	0.746	0.47389
	IL-17	0.592	0.12627
	IL-1ra	0.485	0.14821
	IL-1 β	0.602	0.14109
	IL-5	0.717	0.53290
	IL-6	0.458	0.08282
	IL-8	0.329	0.12518
	MCP-1	0.958	0.90168
	MIP-1 β	0.453	0.09285
	VEGF-A	0.250	0.02942
	IL-4	0.623	0.28134
	IL-10	0.551	0.13676
Vaginal	GM-CSF	2.153	0.10653
	IFN- γ	2.552	0.07918
	IL-2	4.105	0.00020
	IL-15	0.561	0.07125
	IL-17	3.174	0.04847
	IL-1ra	8.672	0.11380
	IL-1 β	2.394	0.27339
	IL-5	0.599	0.12514
	IL-6	3.416	0.14327
	IL-8	0.893	0.85175
	MCP-1	2.268	0.15493
	MIP-1 β	31.518	0.00000
	VEGF-A	1.828	0.00440
	IL-4	0.447	0.02512
	IL-10	0.042	0.00105
Vaginal (uninfected)	GM-CSF	0.455	0.30850
	IFN- γ	1.112	0.78718
	IL-2	2.164	0.18709
	IL-15	0.292	0.13345
	IL-17	1.826	0.06051
	IL-1ra	4.234	0.09048
	IL-1 β	2.033	0.03494
	IL-5	0.567	0.32682
	IL-6	0.778	0.26842
	IL-8	0.277	0.12048
	MCP-1	1.393	0.04997
	MIP-1 β	30.271	0.00007
	VEGF-A	0.654	0.35544
	IL-4	0.398	0.14498
	IL-10	0.007	0.03107

Tissue: Vaginal

ZIKV challenge	Cytokine	Virus vs. Ctrl FC	P value
Subcutaneous	GM-CSF	1.482	0.74853
	IFN- γ	1.121	0.30044
	IL-2	1.044	0.81526
	IL-15	1.538	0.50217
	IL-17	1.065	0.91412
	IL-1ra	1.640	0.68273
	IL-1 β	3.377	0.05465
	IL-5	0.807	0.25777
	IL-6	0.970	0.48965
	IL-8	0.755	0.63778
	MCP-1	1.167	0.57235
	MIP-1 β	0.750	0.69413
	VEGF-A	0.220	0.47318
	IL-4	0.845	0.28484
	IL-10	1.249	0.82541
Vaginal	GM-CSF	2.009	0.18285
	IFN- γ	6.512	0.00007
	IL-2	4.127	0.00043
	IL-15	0.626	0.09253
	IL-17	3.784	0.00091
	IL-1ra	18.721	0.00007
	IL-1 β	24.585	0.27703
	IL-5	2.422	0.00002
	IL-6	5.206	0.00078
	IL-8	1.320	0.18684
	MCP-1	2.861	0.00003
	MIP-1 β	112.680	0.00005
	VEGF-A	3.485	0.02610
	IL-4	1.510	0.00146
	IL-10	0.193	0.03617
Vaginal (uninfected)	GM-CSF	1.794	0.23480
	IFN- γ	6.473	0.00514
	IL-2	3.694	0.00533
	IL-15	0.676	0.35121
	IL-17	3.728	0.02685
	IL-1ra	11.619	0.00783
	IL-1 β	3.600	0.03136
	IL-5	2.406	0.00473
	IL-6	4.501	0.00876
	IL-8	0.806	0.19529
	MCP-1	2.956	0.00164
	MIP-1 β	104.719	0.00003
	VEGF-A	5.728	0.03413
	IL-4	1.515	0.03931
	IL-10	0.051	0.15515

Tissue: Cervical

ZIKV challenge	Cytokine	Virus vs. Ctrl FC	P value
Subcutaneous	GM-CSF	0.340	0.46252
	IFN- γ	1.253	0.30113
	IL-2	0.731	0.56755
	IL-15	1.019	0.90289
	IL-17	1.159	0.22049
	IL-1ra	0.123	0.40006
	IL-1 β	0.550	0.25703
	IL-5	1.186	0.79136
	IL-6	0.550	0.33238
	IL-8	0.995	0.98248
	MCP-1	0.875	0.66782
	MIP-1 β	0.691	0.56985
	VEGF-A	0.514	0.55342
	IL-4	0.872	0.42893
	IL-10	1.029	0.84283
Vaginal	GM-CSF	1.592	0.50718
	IFN- γ	5.878	0.00318
	IL-2	4.363	0.00018
	IL-15	0.481	0.01078
	IL-17	7.056	0.00068
	IL-1ra	11.055	0.25676
	IL-1 β	8.091	0.04854
	IL-5	0.851	0.32088
	IL-6	4.981	0.03989
	IL-8	1.872	0.10807
	MCP-1	0.681	0.60266
	MIP-1 β	99.358	0.00000
	VEGF-A	13.455	0.00581
	IL-4	0.878	0.07949
	IL-10	0.028	0.00000
Vaginal (uninfected)	GM-CSF	1.311	0.71198
	IFN- γ	5.213	0.00469
	IL-2	3.431	0.03065
	IL-15	0.564	0.10973
	IL-17	5.894	0.01212
	IL-1ra	0.963	0.96867
	IL-1 β	2.029	0.05683
	IL-5	0.984	0.94621
	IL-6	4.819	0.00002
	IL-8	1.904	0.06719
	MCP-1	2.080	0.04487
	MIP-1 β	99.018	0.00004
	VEGF-A	26.030	0.00438
	IL-4	0.908	0.37807
	IL-10	0.025	0.00025

Tissue: Uterine

ZIKV challenge	Cytokine	Virus vs. Ctrl FC	P value
Subcutaneous	GM-CSF	0.987	0.98917
	IFN- γ	1.215	0.29025
	IL-2	1.073	0.56398
	IL-15	0.635	0.17422
	IL-17	0.989	0.92840
	IL-1ra	1.109	0.87560
	IL-1 β	1.143	0.75709
	IL-5	0.644	0.58610
	IL-6	0.939	0.47107
	IL-8	1.322	0.73311
	MCP-1	1.222	0.55883
	MIP-1 β	0.838	0.58586
	VEGF-A	7.464	0.42031
	IL-4	0.967	0.39898
	IL-10	0.893	0.84500
Vaginal	GM-CSF	6.432	0.03138
	IFN- γ	7.991	0.00000
	IL-2	5.043	0.00001
	IL-15	0.447	0.00789
	IL-17	6.984	0.00006
	IL-1ra	41.707	0.00327
	IL-1 β	15.160	0.00002
	IL-5	0.901	0.74880
	IL-6	5.223	0.01186
	IL-8	2.180	0.03982
	MCP-1	2.586	0.00095
	MIP-1 β	206.807	0.00000
	VEGF-A	5.357	0.02731
	IL-4	1.627	0.00011
	IL-10	0.081	0.03437
Vaginal (uninfected)	GM-CSF	4.555	0.00312
	IFN- γ	8.318	0.00127
	IL-2	3.721	0.00004
	IL-15	0.826	0.42756
	IL-17	6.641	0.00197
	IL-1ra	24.874	0.00044
	IL-1 β	8.119	0.00099
	IL-5	0.897	0.84656
	IL-6	3.033	0.00788
	IL-8	0.672	0.16355
	MCP-1	1.205	0.20324
	MIP-1 β	205.749	0.00001
	VEGF-A	58.861	0.00012
	IL-4	1.509	0.00213
	IL-10	0.033	0.17892

¹Significantly modulated genes as determined by unpaired *t* test with a Benjemini-Hochberg multiple testing correction ($P < 0.05$)

FC: Fold change