

**Supplementary Table 1. Secretion of various cytokines.**

	<i>patient</i>	<i>treatment</i>	<i>cytokines (pg/ml)</i>					
			IL-2	IFN- $\gamma$	TNF- $\alpha$	IL-4	IL-10	IL-17
<b>CD8<sup>+</sup> TIL</b>								
<b>VUB88</b>	non-treated		133	207	341	7	10	56
	GCS-100		803	783	1222	8	8	61
	LN		831	898	1326	8	9	56
<b>LB3023</b>	non-treated		99	125	168	3	26	0
	GCS-100		2321	2547	1787	10	15	14
	LN		2470	2505	1605	10	15	11
<b>LB 3022</b>	non-treated		163	16	81	0	0	0
	GCS-100		588	499	437	2	10	25
	LN		593	564	412	3	11	33
<b>CD8<sup>+</sup> PBL</b>								
<b>LB 1841</b>	non-treated		818	302	310	3	0	19
	GCS-100		835	337	305	4	0	16
	LN		814	306	307	3	0	16
<b>LB 1555</b>	non-treated		325	50	0	1	0	0
	GCS-100		329	40	0	0	0	0
	LN		351	50	0	0	0	0
<b>LB 2418</b>	non-treated		908	303	629	4	0	32
	GCS-100		1370	456	952	6	0	39
	LN		1010	337	734	5	0	35
<b>CD4<sup>+</sup> TIL</b>								
<b>VUB88</b>	non-treated		260	69	363	5	22	17
	GCS-100		2193	491	890	9	52	33
<b>LB3023</b>	non-treated		132	313	171	5	37	47
	GCS-100		522	3363	625	9	106	56
<b>LB 3022</b>	non-treated		393	116	440	3	41	15
	GCS-100		1636	2365	1280	14	347	88
<b>DC 55</b>	non-treated		0	0	0	0	0	0
	GCS-100		>5870	293	785	4	0	29
	LN		>5870	333	890	5	0	34

NOTE: CD8<sup>+</sup> and CD4<sup>+</sup> TIL were isolated from ascites (ovarian and melanoma VUB88) or solid melanoma (DC55). CD8<sup>+</sup> PBL were isolated from hemochromatosis patients. Cells were treated for 2 h with 5 mM LacNAc or 5  $\mu$ g/ml GCS-100, then 10,000 cells were cultured overnight in 200  $\mu$ l culture medium with 3,000 CD3/CD28 beads. The presence of cytokines was evaluated in the supernatants with the Bio-Plex Pro Human Cytokine Assay (BioRad).