

## Supplementary Materials:

Table S1. Values and significance of Figure 1.

Panel A	C-HUVECs	GD-HUVECs	GD-HUVECs+Myo	p
Basal	4.33 ± 0.28	27.5 ± 3.68 *	7.5 ± 1.89 **	* < 0.01 vs C-HUVECs ** < 0.01 vs GD-HUVECs
TNF-α	26.75 ± 2.63 §	72.5 ± 4.2 ✕ #	52.4 ± 3.08 ¥ ‡	§ < 0.05 vs Basal C-HUVECs ✕ < 0.05 vs Basal GD-HUVECs ¥ < 0.05 vs Basal GD-HUVECs+Myo # < 0.05 vs C-HUVECs ‡ < 0.05 vs GD-HUVECs
Panel C	C-HUVECs	GD-HUVECs	GD-HUVECs+Myo	p
Basal	1.06 ± 0.09	1.48 ± 0.26	1.0 ± 0.12	n/a
TNF-α	6.7 ± 1.21 §	9.19 ± 1.4 ✕ #	6.4 ± 1.86 ¥ ‡	§ < 0.05 vs Basal C-HUVECs ✕ < 0.05 vs Basal GD-HUVECs ¥ < 0.05 vs Basal GD-HUVECs+Myo # < 0.05 vs C-HUVECs ‡ < 0.05 vs GD-HUVECs
Panel D	C-HUVECs	GD-HUVECs	GD-HUVECs+Myo	p
Basal	1.34 ± 0.2	1.53 ± 0.23	1.12 ± 0.11	n/a
TNF-α	3.92 ± 0.16 §	6.67 ± 1.22 ✕ #	3.85 ± 0.29 ¥ ‡	§ < 0.05 vs Basal C-HUVECs ✕ < 0.05 vs Basal GD-HUVECs ¥ < 0.05 vs Basal GD-HUVECs+Myo # < 0.05 vs C-HUVECs ‡ < 0.05 vs GD-HUVECs
Panel F	C-HUVECs	GD-HUVECs	GD-HUVECs+Myo	p
Basal	10.04 ± 1.04	12.46 ± 0.7 ζ	11.26 ± 0.7	ζ < 0.05 vs Basal C-HUVECs
H <sub>2</sub> O <sub>2</sub>	16.53 ± 2.09 §	24.8 ± 1.85 ✕ #	20.08 ± 1.47 ¥ ‡	§ < 0.05 vs Basal C-HUVECs ✕ < 0.05 vs Basal GD-HUVECs ¥ < 0.05 vs Basal GD-HUVECs+Myo # < 0.05 vs C-HUVECs ‡ < 0.05 vs GD-HUVECs

**Table S2. Values and significance of Figure 2**

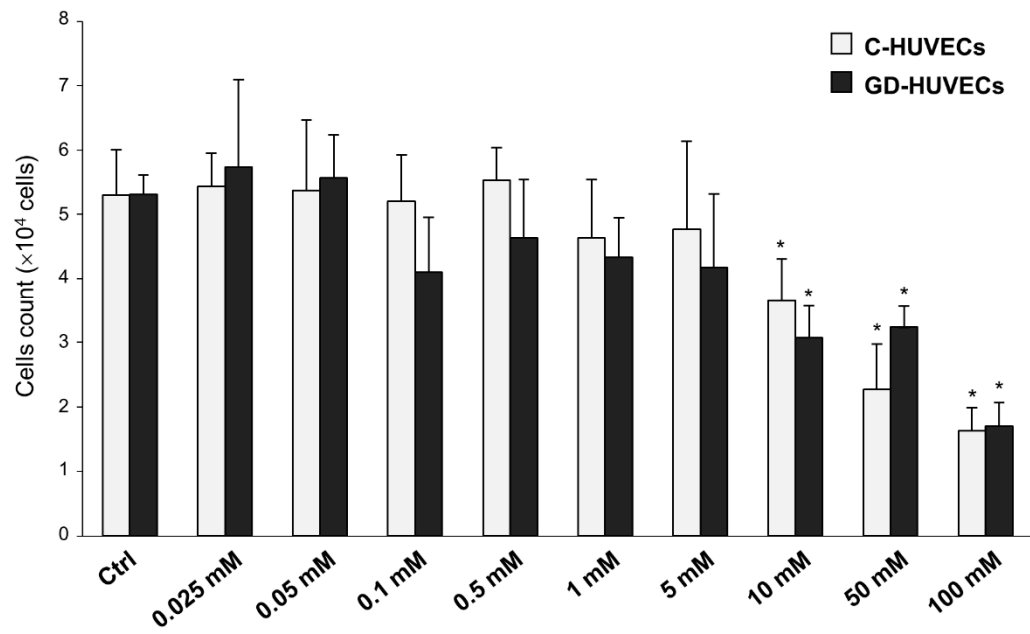
	<b>C-HUVECs</b>	<b>GD-HUVECs</b>	<b>p</b>
<b>Basal</b>	12.58 ± 10.5	36.29 ± 12.04	n/a
<b>TNF-<math>\alpha</math></b>	120.37 ± 6.8 *	192.5 ± 23.9 ** ‡	* < 0.01 vs Basal C-HUVECs ** < 0.005 vs Basal GD-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs
<b>TNF-<math>\alpha</math> + Myo 0.1 mM</b>	109.92 ± 35.4 *	170.19 ± 39.1 **	* < 0.01 vs Basal C-HUVECs ** < 0.005 vs Basal GD-HUVECs
<b>TNF-<math>\alpha</math> + Myo 0.5 mM</b>	102.29 ± 34.5 *	127.9 ± 37.7 **	* < 0.01 vs Basal C-HUVECs ** < 0.005 vs Basal GD-HUVECs
<b>TNF-<math>\alpha</math> + Myo 1 mM</b>	77.05 ± 27.6 *	107.6 ± 15.7 ** #	* < 0.01 vs Basal C-HUVECs ** < 0.005 vs Basal GD-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
<b>TNF-<math>\alpha</math> + LA 0.1 mM</b>	71.4 ± 29.4 *	97.1 ± 21.8 ** #	* < 0.01 vs Basal C-HUVECs ** < 0.005 vs Basal GD-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
<b>TNF-<math>\alpha</math> + LA 0.2 mM</b>	76.2 ± 8.1 * ‡	60.4 ± 20.5 #	* < 0.01 vs Basal C-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
<b>TNF-<math>\alpha</math> + anti-VCAM-1</b>	65.9 ± 14.9 * ‡	57.7 ± 4.9 #	* < 0.01 vs Basal C-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
<b>TNF-<math>\alpha</math> + anti-VCAM-1</b>	80.2 ± 4.2 * ‡	71.26 ± 5.2 #	* < 0.01 vs Basal C-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs

Table S3. Values and significance of Figure 3

Panel A	C-HUVECs	GD-HUVECs	p
Basal	0.95 ± 0.06	1.32 ± 0.19	n/a
TNF- $\alpha$	11.5 ± 0.87 *	20.8 ± 1.11 ** ‡	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs
TNF- $\alpha$ + Myo 0.1 mM	10.48 ± 1.23 *	18.37 ± 2.07 **	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs
TNF- $\alpha$ + Myo 0.5 mM	9.84 ± 0.67 *	17.67 ± 1.87 **	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs
TNF- $\alpha$ + Myo 1 mM	9.49 ± 1.06 *	16.98 ± 1.03 ** #	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
TNF- $\alpha$ + LA 0.1 mM	9.74 ± 0.9 *	16.28 ± 2.21 **	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs
TNF- $\alpha$ + LA 0.2 mM	7.35 ± 0.63 * ‡	13.36 ± 2.25 ** #	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
Panel B	C-HUVECs	GD-HUVECs	p
Basal	2.49 ± 0.39	2.99 ± 0.34	n/a
TNF- $\alpha$	9.12 ± 0.79 *	11.12 ± 0.7 ** ‡	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs
TNF- $\alpha$ + Myo 0.1 mM	8.26 ± 0.7 *	10.81 ± 0.48 **	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs
TNF- $\alpha$ + Myo 0.5 mM	8.52 ± 0.86 *	9.57 ± 0.67 **	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs
TNF- $\alpha$ + Myo 1 mM	7.53 ± 1.32 *	9.01 ± 0.64 ** #	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
TNF- $\alpha$ + LA 0.1 mM	8.92 ± 1.07 *	8.22 ± 1.02 ** #	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs
TNF- $\alpha$ + LA 0.2 mM	6.99 ± 0.11 * ‡	7.86 ± 0.19 ** #	* < 0.001 vs Basal C-HUVECs ** < 0.001 vs Basal GD-HUVECs ‡ < 0.05 vs TNF- $\alpha$ C-HUVECs # < 0.05 vs TNF- $\alpha$ GD-HUVECs

Table S4. Values and significance of Figure 4

	C-HUVECs	GD-HUVECs	p
Basal	1.0 ± 0.0	1.28 ± 0.17	n/a
H <sub>2</sub> O <sub>2</sub>	1.67 ± 0.28	3.0 ± 0.44 * ‡	* < 0.005 vs Basal GD-HUVECs ‡ < 0.005 vs H <sub>2</sub> O <sub>2</sub> C-HUVECs
H <sub>2</sub> O <sub>2</sub> + Myo 0.1 mM	1.52 ± 0.25	2.42 ± 0.26 *	* < 0.005 vs Basal GD-HUVECs
H <sub>2</sub> O <sub>2</sub> + Myo 0.5 mM	1.41 ± 0.15	2.02 ± 0.73	n/a
H <sub>2</sub> O <sub>2</sub> + Myo 1 mM	1.36 ± 0.14	1.57 ± 0.48 #	# < 0.05 vs H <sub>2</sub> O <sub>2</sub> GD-HUVECs
H <sub>2</sub> O <sub>2</sub> + LA 0.1 mM	1.57 ± 0.11	1.89 ± 0.65 #	# < 0.05 vs H <sub>2</sub> O <sub>2</sub> GD-HUVECs
H <sub>2</sub> O <sub>2</sub> + LA 0.2 mM	1.27 ± 0.02	1.77 ± 0.31 #	# < 0.05 vs H <sub>2</sub> O <sub>2</sub> GD-HUVECs



**Figure S1.** Effect of *in vitro* treatment with Myo on viability in C- and GD-HUVECs. \* $p < 0.05$  in C- and GD-HUVECs vs Control (Ctrl) condition.