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Supplementary information for

Impact of TNF and IL-1β on capillary networks within engineered human adipose tissues

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Table S1 Characteristics of ASC donors used for sheet and tissue reconstruction.

Donor	Age (years)	Body mass index (BMI)	Type of analysis*
ASCs #1	44	27.5	E, C, A
ASCs #2	38	29.5	H, E, C
ASCs #3	33	23.2	P
ASCs #4	36	25.0	P

* H: Histology, E: ELISA, C: Capillary network, A: Apoptosis, P: qPCR

Table S2 Primers used for TNF and IL-1β receptors gene expression analysis.

Gene Symbol	Description	GenBank	Size (bp)	Primer sequence 5'->3' S/AS
TNFRSF1A	Homo sapiens tumor necrosis factor receptor superfamily, member 1A (TNFRSF1A)	NM_001065	222	CCAGGAGAAACAGAACACCGT/AAACCAATGAAGAGGAGGGATAA
TNFRSF1B	Homo sapiens tumor necrosis factor receptor superfamily, member 1B (TNFRSF1B)	NM_001066	167	GCCTCCTTCCTTGCTGTCCTAG/CAGGAATTGAAGGTGGGGAGTG
IL1R1	Homo sapiens interleukin 1 receptor, type I (IL1R1), 2 transcripts	NM_000877	251	TGGAGCAGGGATGTCACGTCTT/TTCCTCCACCCACGCTTATCCA
IL1R2	Homo sapiens interleukin 1 receptor, type II (IL1R2), 3 transcripts	NM_004633	218	TGTGTTGTCCATAATACCCTGAGTT/TTGGGATAGGATTGAAAGTCTTGA
IL1RAP	Homo sapiens interleukin 1 receptor accessory protein (IL1RAP), 6 transcripts	NM_001167928	144	GGGACTAGACACCATGAGGCAAAT/TGCCTAGTCCAATACCAGATCAGAG

Table S3 Basal gene expression of TNF and IL-1β receptors in human reconstructed adipose sheets engineered from ASCs of two distinct donors and in monolayer cultures of hMVECs.

Gene Symbol	**Copies / µg total RNA**					
	ASCs #3		**ASCs #4**		**hMVECs**	
	Mean	**SD**	**Mean**	**SD**	**Mean**	**SD**
TNFRSF1A	1 000 242	29 593	1 259 710	121 396	1 362 291	237 711
TNFRSF1B	96 888	814	85 568	8 971	130 082	27 903
IL1R1	2 764 046	57 156	2 293 033	121 570	23 727	4 550
IL1R2	91 724	8 460	90 786	8 967	458	156
IL1RAP	29 875	3 613	44 620	1 360	64 105	9 929