

Suplementary Tables:

<u>Table S1</u>: Research resource identifiers (RRIDs) of the antibodies.

Marker	Conjugate	Clone	Source	Catalogue no.	Dilution	RRID
CD45	AF700	HI30	BD	560566	1:80	AB_1645452
CD14	BV711	МФР9	BD	563373	1:80	AB_2744290
CD11c	Pe-Cy7	B-Iy6	BD	561356	1:80	AB_10611859
CD206	BV421	19.2	BD	564062	1:80	AB_2738570
CD163	BV605	GHI/61	BD	745091	1:40	AB_2742705
IL-10	APC	JES3-9D7	Biolegend	501410	1:20	AB_315176
Aqua dead cell stain			Invitrogen	L34957	1:1000	

Antibodies, clone, catalogue number, dilution for all the markers used for flow cytometry are listed along with RRIDs.

<u>Table S2</u>: Multiple regression of WAT IL-10 with other WAT cytokines

IL-10	Wo	men	Men		
	β-coeff	p-value	β-coeff	p-value	
IL-6	0.391	0.01	0.226	0.033	
MCP-1	0.588	<0.001	0.349	0.001	
TNFa	0.428	0.006	0.315	0.003	

The analysis was performed in cohort 1 (n = 42 for women and n = 63 for men). Multiple regression analysis was performed to identify significant correlations of WAT IL-10 with three other WAT cytokines when corrected to BMI.

<u>Table S3</u>: Linear regression of serum IL-10 with other circulating cytokines

	Women (II	L-10)	Men (IL-10)		
	r-value	p-value	r-value	P-value	
IFNg	0.651	<0.001	-0.519	<0.001	
IL-1b	-0.611	0.001	-0.491	0.001	
IL-6	-0.679	<0.001	-0.622	<0.001	
MCP-1	-0.622	<0.001	-0.618	<0.001	
TNFa	-0.465	0.001	-0.678	<0.001	
IL-1RA	-0.580	<0.001	-0.639	<0.001	

The analysis was performed in cohort 1 (n = 42 for women and n = 63 for men). Circulating IL-10 levels did not correlate to BMI. Therefore, linear regressions were used for association analysis. Pearson r- and p- values are shown (significant values in bold).

<u>Table S4</u>: Spearmen correlations of IL-10 production with measures of glucose metabolism

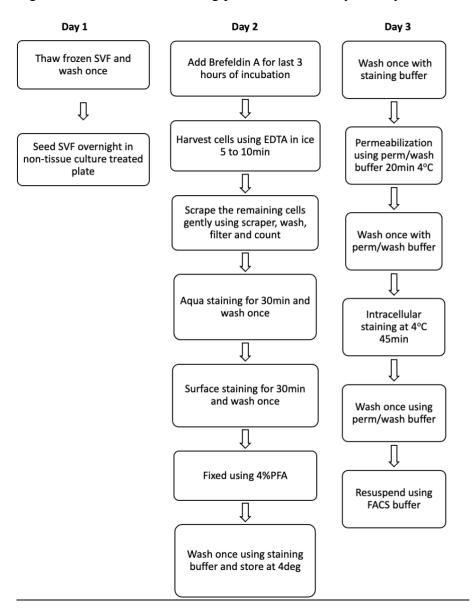
Women	p-glucose		HbA1c		HOMA-IR	
	rho	p-value	rho	p-value	rho	p-value
IL-10 WAT secretion	0.286	0.066	0.378	0.013	0.414	0.006
IL-10 mRNA	0.736	<0.0001	0.676	0.001	0.742	<0.0001
IL-10 Serum levels	-0.029	0.849	-0.193	0.203	0.086	0.569

Men	p-glucose		HbA1c		HOMA-IR	
	rho	p-value	rho	p-value	rho	p-value
IL-10 WAT secretion	0.156	0.221	0.124	0.331	0.170	0.186
IL-10 mRNA	0.270	0.235	0.097	0.682	0.431	0.057
IL-10 Serum levels	-0.025	0.839	-0.009	0.936	0.015	0.900

Spearman correlations were performed in cohort 1 (n = 42 for women and n = 63 for men).

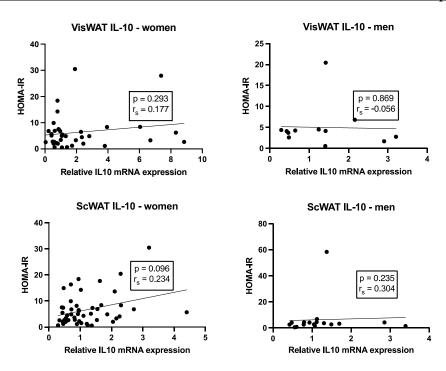
Supplementary figures

Figure S1: Intracellular staining protocol for flow cytometry



Step by step procedure for intracellular staining for flow cytometry is shown for day 1, 2 and 3.

Figure S2: Correlation of *IL10* to HOMA-IR in men and women in different depots



IL10 expression in scWAT and visWAT was plotted against HOMA-IR in both men and women from cohort 2 (scWAT n = 51 obese women and 18 obese men; visWAT n = 39 obese women and 15 obese men), Spearman correlation was used to evaluate association for not normally distribution.