

Supplementary Information

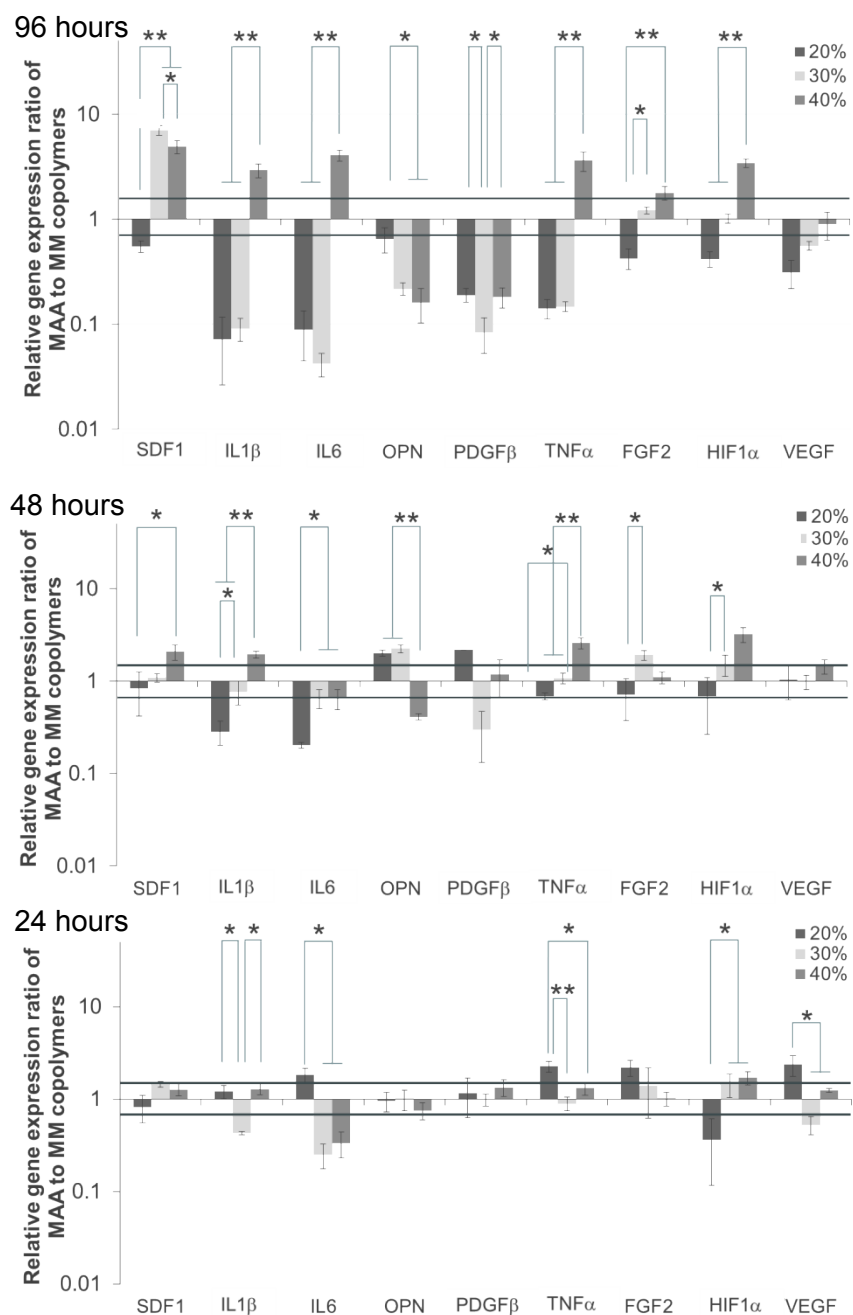


Fig. S1 The relative gene expression ratios for dTHP1 cells incubated on MAA films (as a ratio to MM films) for 24, 48 or 96 hours. Genes with relative expression ratios above the horizontal line at 1.5 are considered upregulated, and below the horizontal line at 0.67 are considered downregulated. ($\pm$ SEM, $n=3$, * = $p<0.05$, **= $p<0.005$).

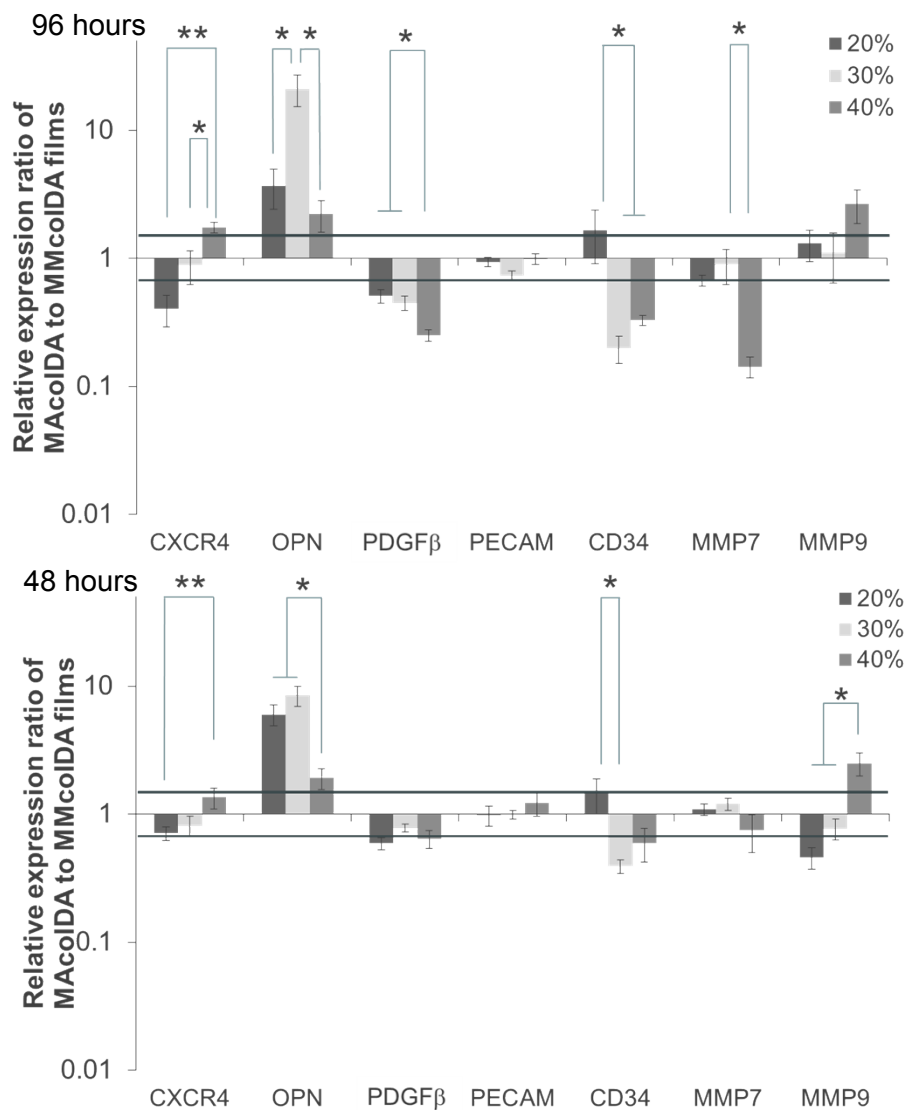


Fig. S2 The relative gene expression ratios for HUVEC incubated on MAA films (as a ratio to MM films) for 48 or 96 hours. Genes with relative expression ratios above the horizontal line at 1.5 are considered upregulated, and below the horizontal line at 0.67 are considered downregulated. ($\pm$ SEM, $n=3$, * = $p<0.05$, **= $p<0.005$).

Correlation Matrix-dTHP1 cell data set

		CXCL12	IL1 β	IL6	OPN	PDGF β	TNF α	FGF2	HIF1 α	VEGF	MAA
Correlation	CXCL12	1.000	.278	.158	-.792	-.489	.208	.626	.600	.198	.752
	IL1 β	.278	1.000	.939	-.167	.316	.992	.671	.914	.799	.676
	IL6	.158	.939	1.000	-.138	.197	.935	.600	.784	.599	.524
	OPN	-.792	-.167	-.138	1.000	.558	-.096	-.200	-.449	.158	-.529
	PDGFb	-.489	.316	.197	.558	1.000	.419	-.223	.051	.637	-.288
	TNF α	.208	.992	.935	-.096	.419	1.000	.610	.867	.828	.587
	FGF2	.626	.671	.600	-.200	-.223	.610	1.000	.782	.583	.856
	HIF1 α	.600	.914	.784	-.449	.051	.867	.782	1.000	.725	.900
	VEGF	.198	.799	.599	.158	.637	.828	.583	.725	1.000	.514
	MAA	.752	.676	.524	-.529	-.288	.587	.856	.900	.514	1.000

Table S1. Correlation matrix from the dTHP1 cell principal component analysis.

Correlation Matrix-HUVEC data set

		CXCR4	OPN	PDGF β	PECAM	CD34	MMP7	MMP9	MAA
Correlation	CXCR4	1.000	-.351	-.449	.299	-.630	-.580	.592	.841
	OPN	-.351	1.000	.247	-.830	-.381	.561	-.627	-.106
	PDGF β	-.449	.247	1.000	.279	.304	.913	-.537	-.233
	PECAM	.299	-.830	.279	1.000	.391	-.089	.323	.136
	CD34	-.630	-.381	.304	.391	1.000	.239	-.336	-.851
	MMP7	-.580	.561	.913	-.089	.239	1.000	-.717	-.371
	MMP9	.592	-.627	-.537	.323	-.336	-.717	1.000	.636
	MAA	.841	-.106	-.233	.136	-.851	-.371	.636	1.000

Table S2. Correlation matrix from the HUVEC principal component analysis.