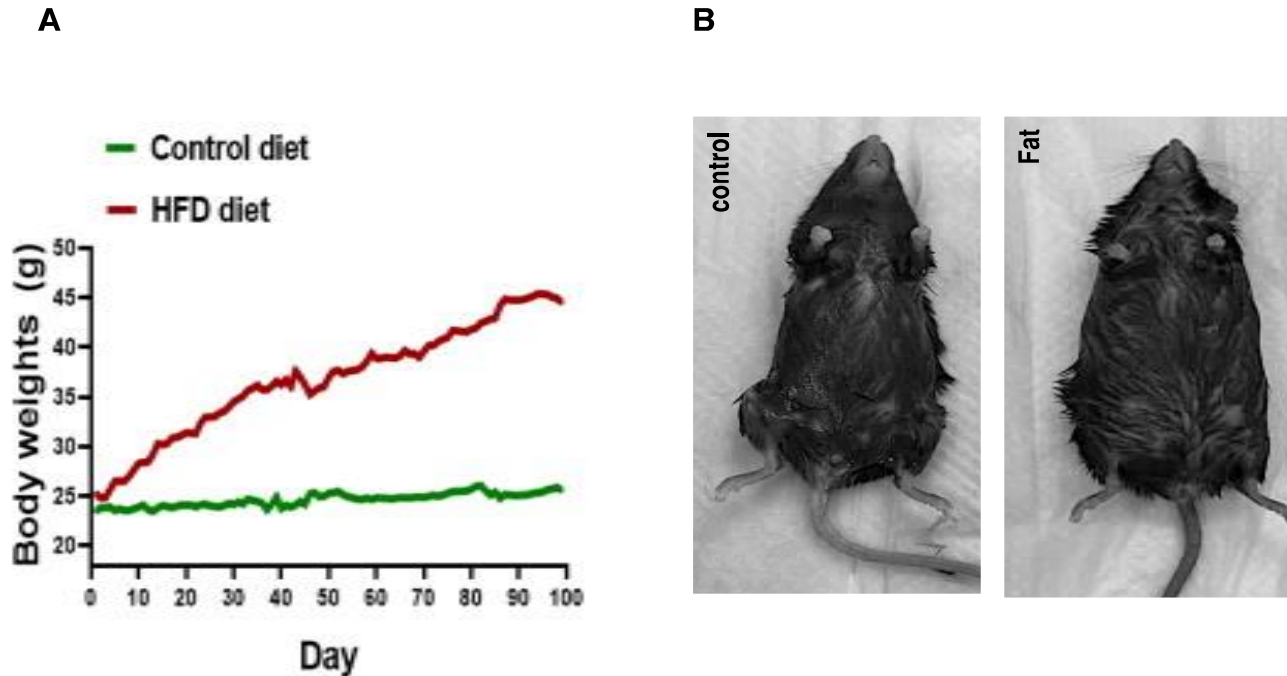


## *Supplementary Material*

CCKR		Cytoskeletal	
MMP9	3.03373225	RHOJ	3.57268381
TACR1	3.55882924	PAK6	2.12772342
PPARG	-2.56274214	ACTC1	2.0582063
CXCL8	2.43832086	ACTRT3	2.57750964
MAP2K6	4.26999554	Inflammation	
IER3	-2.04589872	GNG7	-2.45354002
KLF4	-2.62024641	PLCL1	6.48029635
PTGS2	1.96082872	PAK6	2.12772342
CXCL2	3.09473238	CCR3	4.05285136
Angiogenesis		ACTC1	2.0582063
GRB7	-3.22948866	CCL7	5.64774207
KDR	-2.4390147	ACTRT3	2.57750964
PDGFD	2.52043163	CAMK2B	-3.35551385
PRKCG	-4.02093121	CXCL8	2.43832086
WNT10A	8.79415877	FPR3	3.26356853
PTPRB	-2.11744944	IL6	2.11546865
FZD3	2.3160884	PTGS2	1.96082872
WNT2B	-2.5043281	FPR1	4.85067119
GNG7	-2.45354002	CCRL2	2.89988295
GNG11	2.10527558	CCR1	2.64908721
		C3AR1	3.45056365
		CXCR2	-6.365593
		ITGA4	-2.07199983
		CCR5	5.66479864

**Supplementary Figure S1:** Gene panel selection. After genes classification into two different groups, upregulated and downregulated genes, they were analyzed with the online software PANTHER and classified into different pathways. Genes were selected based on their function in carcinogenesis (angiogenesis and cytoskeletal modulation) and inflammation and on their fold change.



**Supplementary Figure S2: (A) Graph representing the body weight evolution between the two mice groups for 100 days.** Two groups of mice were used, with 3 mice per group. One group of mice was given standard chow diet (control group), and the other group was given high-fat diet food (HFD diet) for nearly 4 months. Every 10 days, the mice were weighted until the HFD diet group mice weight twice the control diet group mice. **(B)** Photo representing one mouse of each group.