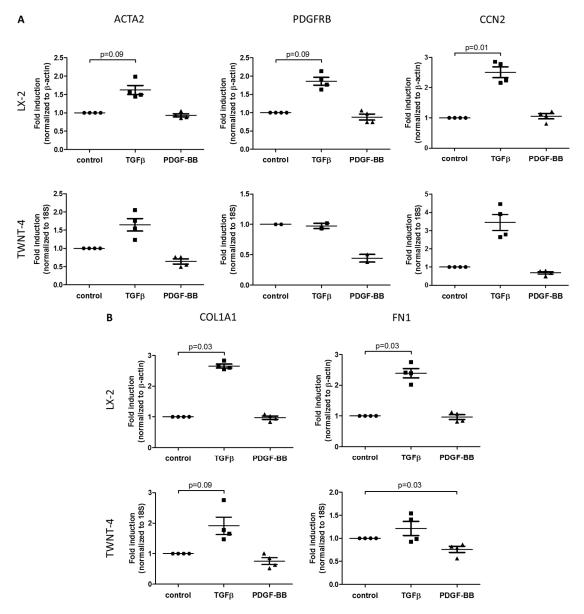
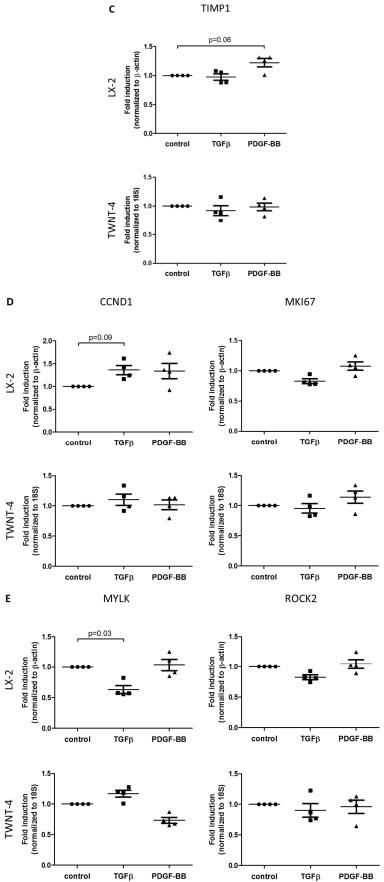




Supplementary Materials: Design of a Gene Panel to Expose the Versatile Role of Hepatic Stellate Cells in Human Liver Fibrosis

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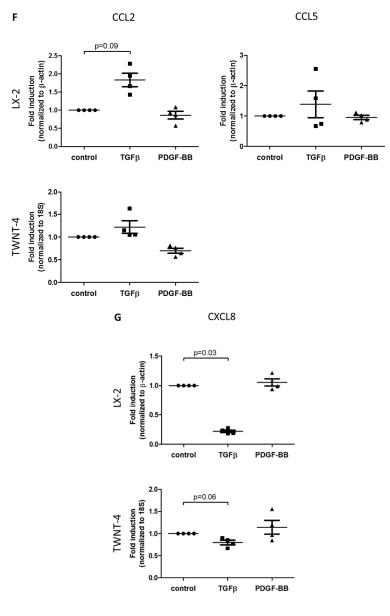


Figure S1. In vitro effects of TGF β or PDGF-BB on the gene expression of markers for HSC-activities during fibrosis in LX-2 and TWNT-4 cells (both *n* = 4). HSC-activities and their associated genes include (**A**) activation (*ACTA2, PDGFRB, CCN2*), (**B**) fibrogenesis (*COL1A1, FN1*), (**C**) altered matrix degradation (*TIMP1*), (**D**) proliferation (*CCND1, MKI67*), (**E**) contractility (*MYLK, ROCK2*), (**F**) chemotaxis (*CCL2, CCL5*) and (**G**) inflammatory signaling (*CXCL8*). The Ct values of *CCL5* in TWNT-4 cells and *TNF, PPARG* and *CYGB* in both cell types were not detectable. Fold inductions are relative to untreated controls.

Table S1. Ct values ± SEM per gene of the untreated controls in all used in vitro models as determined with quantitative real-time PCR. ND indicates not detectable values.

Gene	Primary HSC	HHSteC	LX-2	TWNT-4	PCLS
ACTA2	19.2 ± 0.1	22.3 ± 0.7	22.0 ± 0.7	25.3 ± 0.3	26.8 ± 0.6
PDGFRB	26.9 ± 0.2	26.8 ± 0.2	29.8 ± 0.6	ND	28.6 ± 0.4
CCN2	18.7 ± 0.1	20.7 ± 0.7	21.7 ± 0.3	22.9 ± 0.2	26.8 ± 0.6
COL1A1	17.2 ± 0.3	18.0 ± 0.1	19.1 ± 0.3	20.3 ± 0.2	22.8 ± 0.4
FN1	17.8 ± 0.2	18.0 ± 0.6	20.7 ± 0.3	22.6 ± 0.3	20.6 ± 0.6
TIMP1	17.6 ± 0.1	19.0 ± 0.2	22.4 ± 0.3	23.2 ± 0.1	20.7 ± 0.2
CCND1	18.7 ± 0.1	22.2 ± 0.1	23.1 ± 0.3	22.5 ± 0.3	24.1 ± 0.5

MKI67	24.2 ± 0.1	24.2 ± 0.7	22.5 ± 0.4	24.5 ± 0.3	28.8 ± 1.1
MYLK	24.2 ± 0.1	25.4 ± 0.2	24.4 ± 0.3	28.4 ± 0.4	27.2 ± 1.2
ROCK2	23.7 ± 0.1	24.9 ± 0.2	24.2 ± 0.4	26.5 ± 0.3	25.5 ± 0.5
CCL2	23.1 ± 0.1	23.2 ± 0.4	30.1 ± 0.3	26.3 ± 0.4	23.7 ± 0.3
CCL5	ND	31.1 ± 1.1	30.6 ± 0.4	ND	27.3 ± 0.4
TNF	ND	ND	ND	ND	29.7 ± 0.7
CXCL8	28.4 ± 0.2	26.4 ± 1.0	29.1 ± 0.6	26.3 ± 0.4	24.9 ± 0.7
PPARG	ND	31.1 ± 0.8	ND	ND	28.9 ± 0.3
CYGB	27.3 ± 0.2	24.7 ± 0.7	ND	ND	29.4 ± 1.1
ACTB	17.1 ± 0.1	16.9 ± 0.1	16.8 ± 0.6	20.5 ± 0.5	19.4 ± 0.2
RNA18S5	10.0 ± 0.2	7.8 ± 0.2	9.4 ± 0.6	13.7 ± 0.6	8.5 ± 0.7