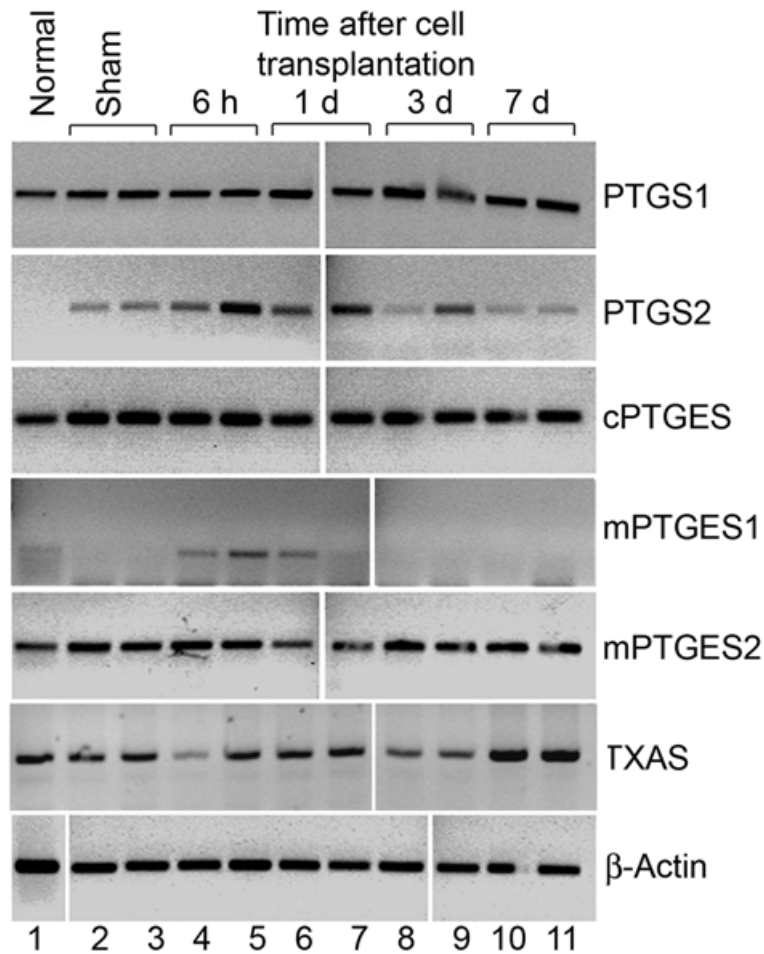
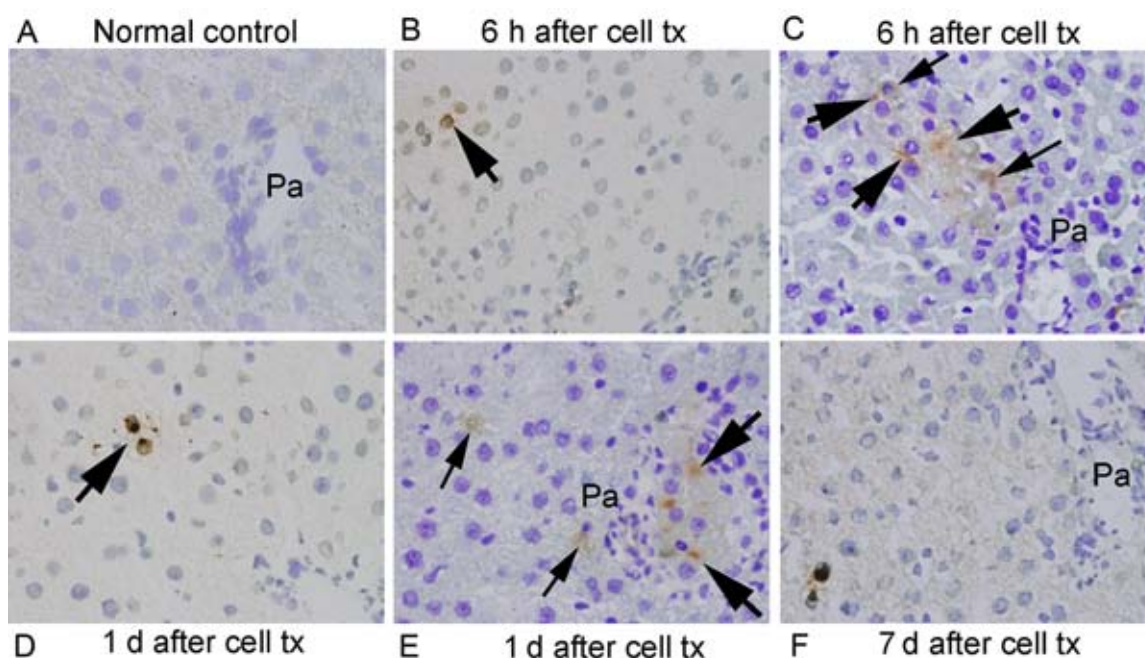


Supplementary Material

Supplementary Figure 1. RT-PCR analysis of cyclooxygenase pathway genes

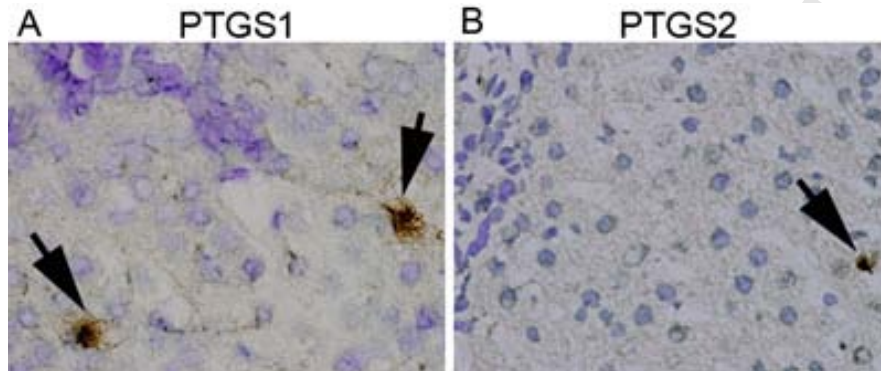


RT-PCR showing changes in the expression of several genes in the cyclooxygenase pathways as indicated. Lane 1, unmanipulated normal rat liver; lanes 2, 3, sham-operated livers after 6 h; lanes 4-11, livers from animals 6 h, 1 d, 3 d, and 7 d after hepatocyte transplantation via the spleen.

Supplementary Figure 2. Immunohistochemical studies of PTGS2 expression

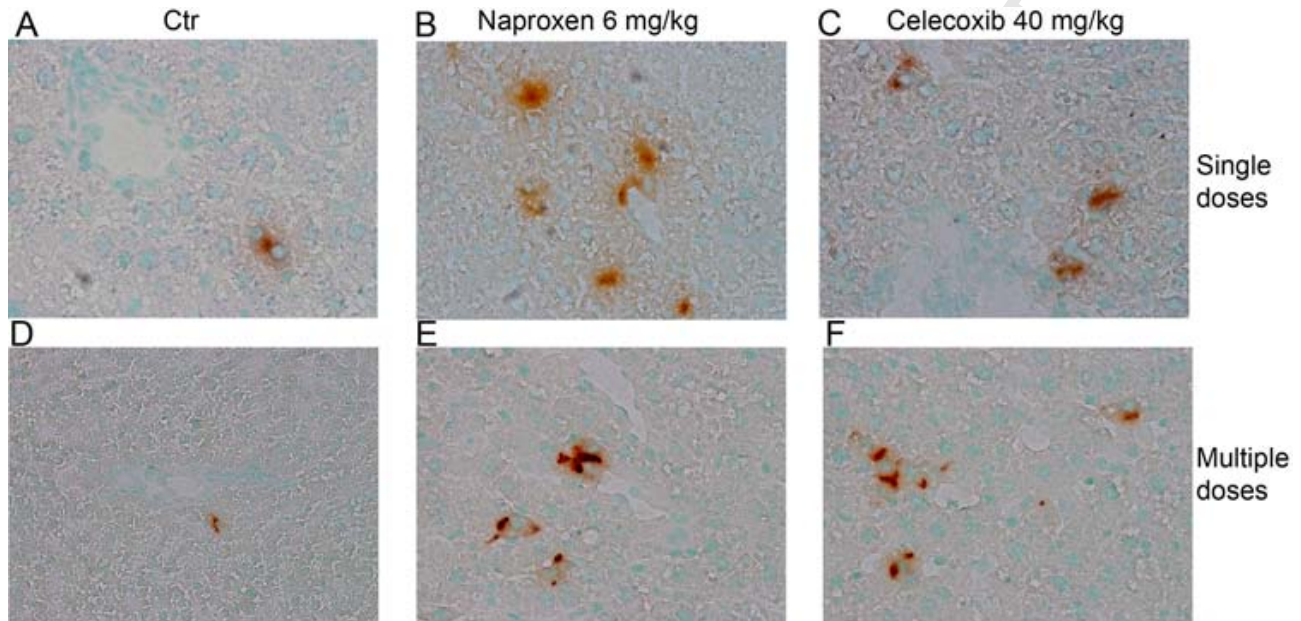
PTGS2 was not expressed in the normal liver (A). Although PTGS2 was expressed after cell transplantation (arrows in B-F), the magnitude of PTGS2 expression was less than that of PTGS1. Combined staining for DPPIV and PTGS2 (C, E) showed that transplanted cells (thick arrows) and PTGS2 (thin arrows) were often in proximity to one another. Orig. mag. x400; toluidine blue counterstain.

**Supplementary Figure 3. Immunohistochemical staining for PTGS1 and PTGS2 in
sham-treated rats**

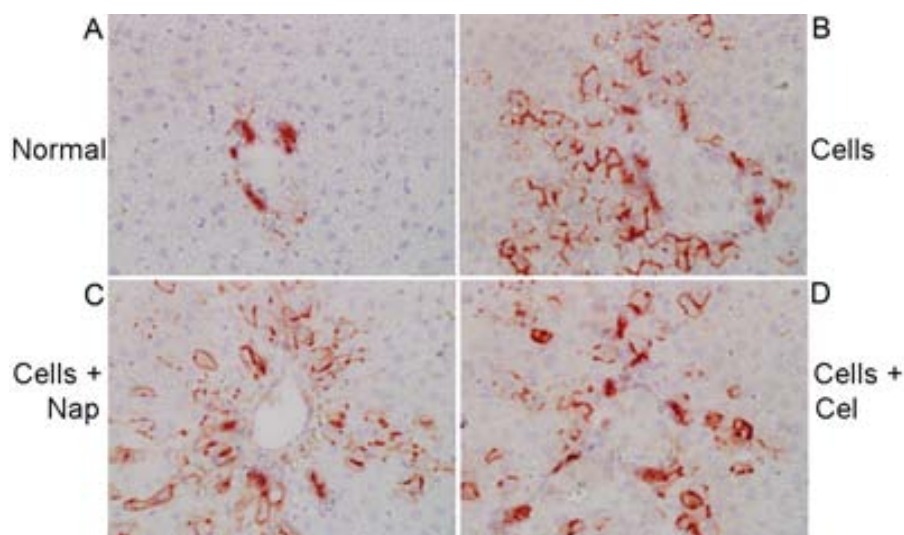


Shown is presence of occasional liver cells with expression of PTGS1 (A), as well as PTGS2 (B) (arrows) in animals subjected to sham treatment 6 h previously. Orig. mag. x400; toluidine blue counterstain.

Supplementary Figure 4. Improvements in cell engraftment in animals treated with PTGS1 and PTGS2 blockers

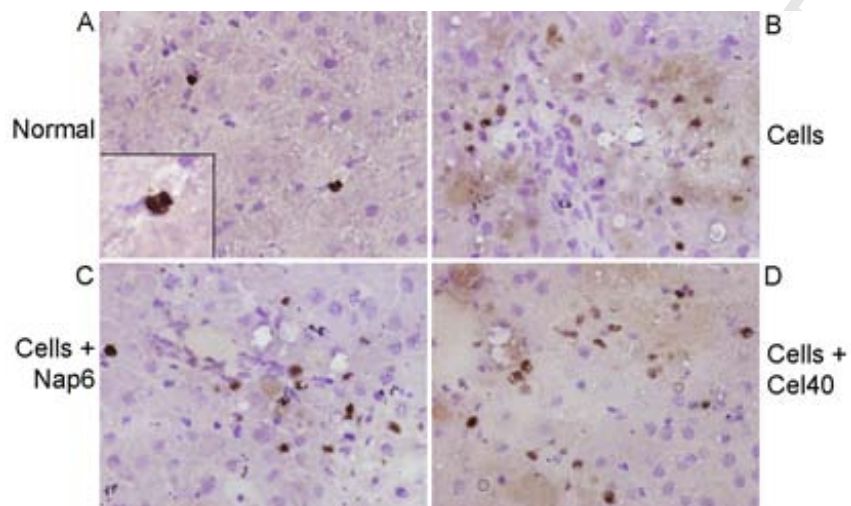


Cell engraftment in control rats (A, D), and rats treated with single doses of 6 mg/kg naproxen or 40 mg/kg celecoxib (B, C), and rats treated with 8 doses each of naproxen and celecoxib (E, F). Orig. mag. x400; methylgreen counterstain.

Supplementary Figure 5. Hepatic GGT expression after cell transplantation

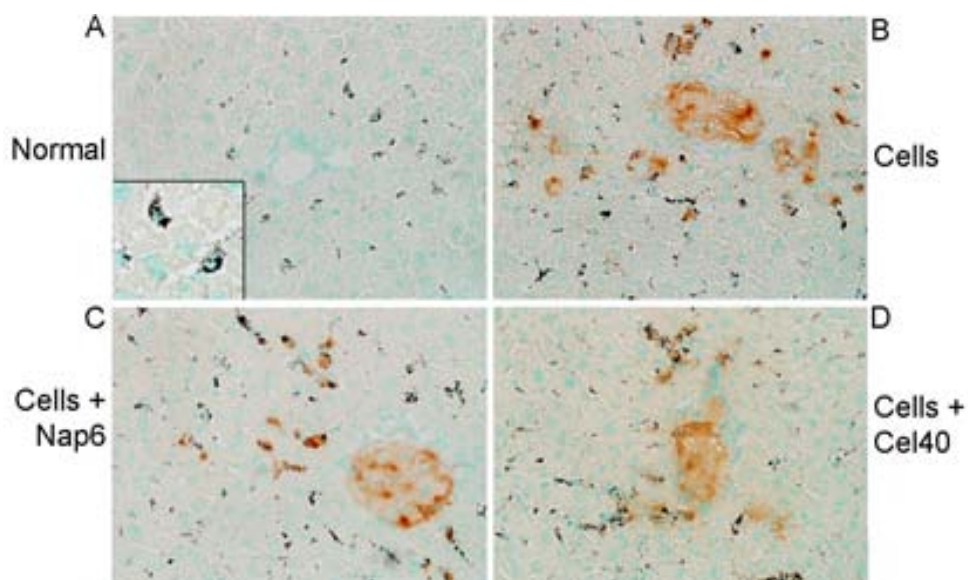
(A) Shows normal control liver with GGT expression restricted to bile ducts (red color). (B) GGT expression in native hepatocytes in the periportal region 6 h after cell transplantation, which was unchanged 6 h after cell transplantation in animals pretreated with 6 mg/kg naproxen (C) or 40 mg/kg celecoxib (D), indicating that GGT expression was unaffected by blockade of PTGS1 and PTGS2. Orig. mag. x400; hematoxylin counterstain.

Supplementary Figure 6. Accumulation of myeloperoxidase-positive neutrophils in liver 6 h after cell transplantation



(A) Shows scattered neutrophils with myeloperoxidase staining in untreated control rat (inset, magnified view), (B) rat after cell transplantation alone with more neutrophils, (C and D), rats treated with 6 mg/kg naproxen (C) and 40 mg/kg celecoxib (D) followed by cell transplantation continued to show neutrophil accumulation. Orig. mag. x400; hematoxylin counterstain,

Supplementary Figure 7. Kupffer cells with carbon incorporation 6 h after cell transplantation



Livers from animals with carbon-containing Kupffer cells (black particles) and DPPIV-positive transplanted cells (red color) are shown. (A) Untreated control rat with inset showing magnified view of Kupffer cells with carbon, (B) rat after cell transplantation alone, (C and D) rats treated with 6 mg/kg naproxen or 40 mg/kg celecoxib before cells. Orig. mag. x400; methylgreen counterstain.

Supplementary Table 1

>2-Fold mean changes in gene expression of chemokines, cytokines and receptors compared with normal liver (n=3 animals each)

Genes	Cell transplantation alone	Cell transplantation after 6 mg/kg naproxen	Cell transplantation after 40 mg/kg celecoxib
Ccl12_predicted	20.78	27.91	21.26
Ccl17	16.11	13.04	10.26
Ccl2	69.26	97.82	99.17
Ccl20	13.00	36.54	8.88
Ccl3	8.70	10.47	7.79
Ccl4	7.51	9.78	6.49
Ccl7	64.94	105.75	90.32
Ccr1	7.32	10.01	7.49
Ccr2	4.37	4.11	1.54
Ccr12_predicted	2.59	2.85	2.45
Cmkor1	5.11	5.78	5.41
Csf1	2.27	2.05	2.03
Csf2	8.43	9.76	8.43
Cxcl1	76.99	96.90	74.66
Cxcl10	13.69	17.31	8.32
Cxcl2	153.26	228.35	106.73
Cxcl4	2.98	2.48	2.68
Cxcl5	3.14	3.87	2.04
Cxcl7	2.63	1.96	1.84
Cxcr4	2.79	2.61	3.16
Ecgf1	-4.33	-5.40	-4.60
Epo	9.74	15.36	18.79
Gpr77	-2.80	-2.28	-2.16
Il8rb	39.63	39.81	24.03
Inhbb	65.90	75.77	54.49
Lif	25.90	26.50	19.09
Mmp7	2.56	2.22	-1.08
Rgs3	-3.45	-4.76	-4.29
Slit2	-3.01	-2.47	-5.38
Tlr2	2.76	3.58	2.30
Tnf	7.90	11.33	8.25
Tnfrsf1a	2.18	2.01	2.11
Trem1_predicted	11.56	10.66	9.04