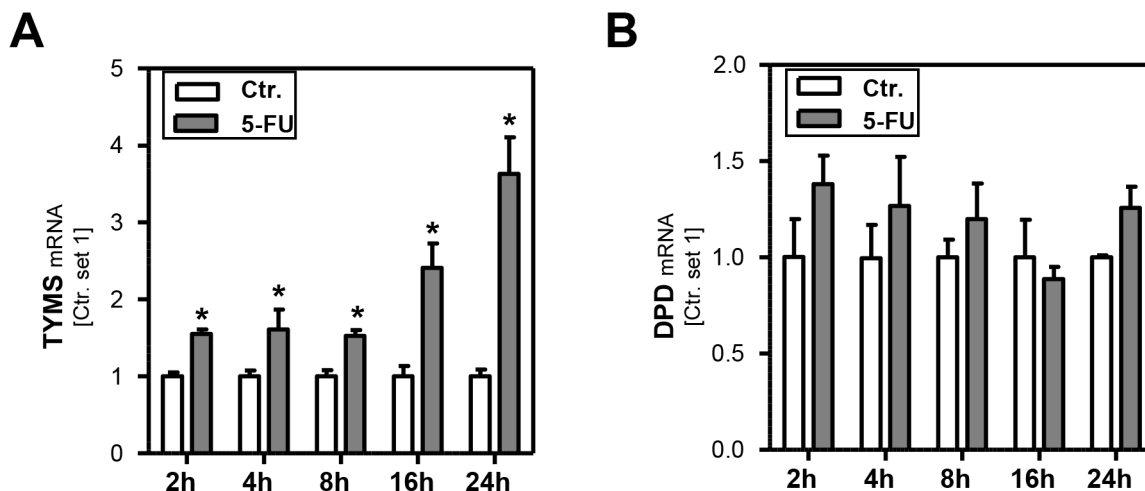
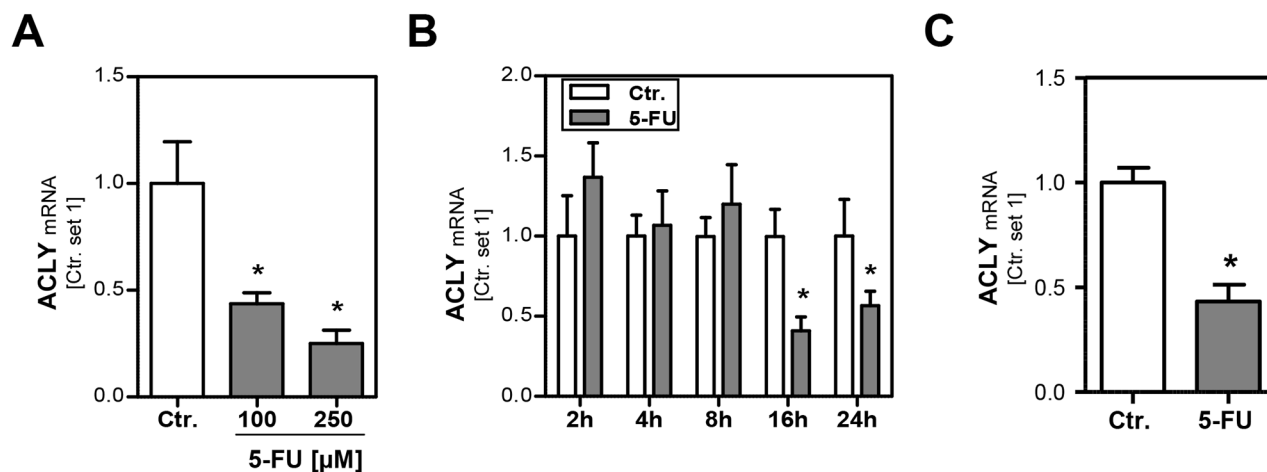


Analysis of molecular mechanisms of 5-fluorouracil-induced steatosis and inflammation *in vitro* and in mice

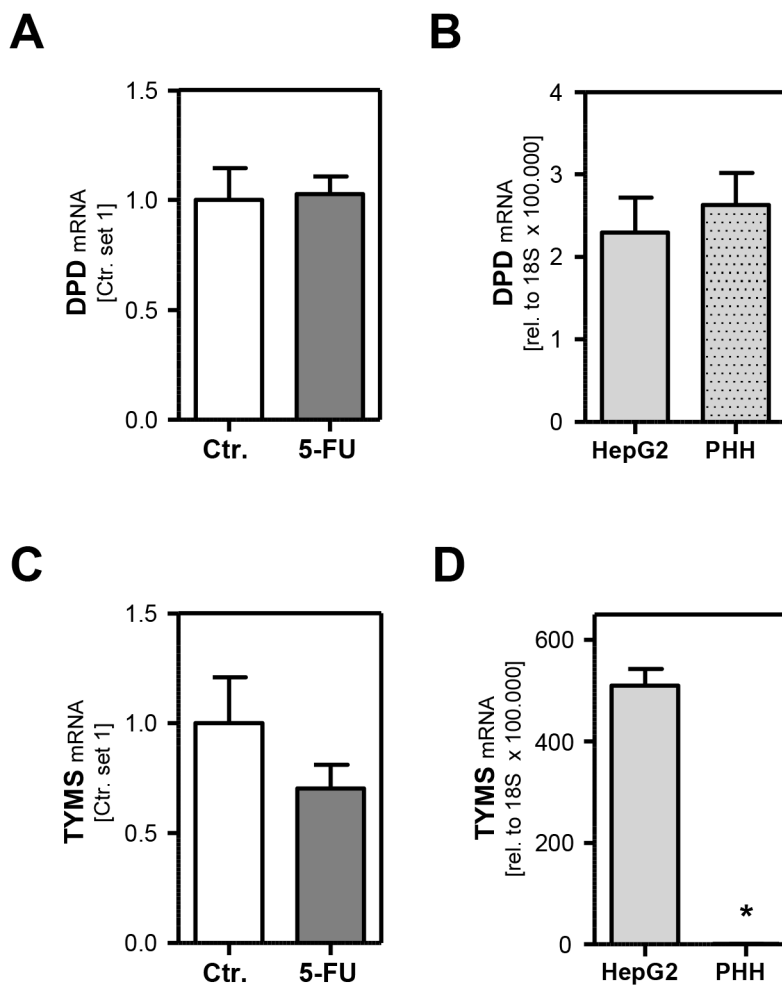
SUPPLEMENTARY FIGURES



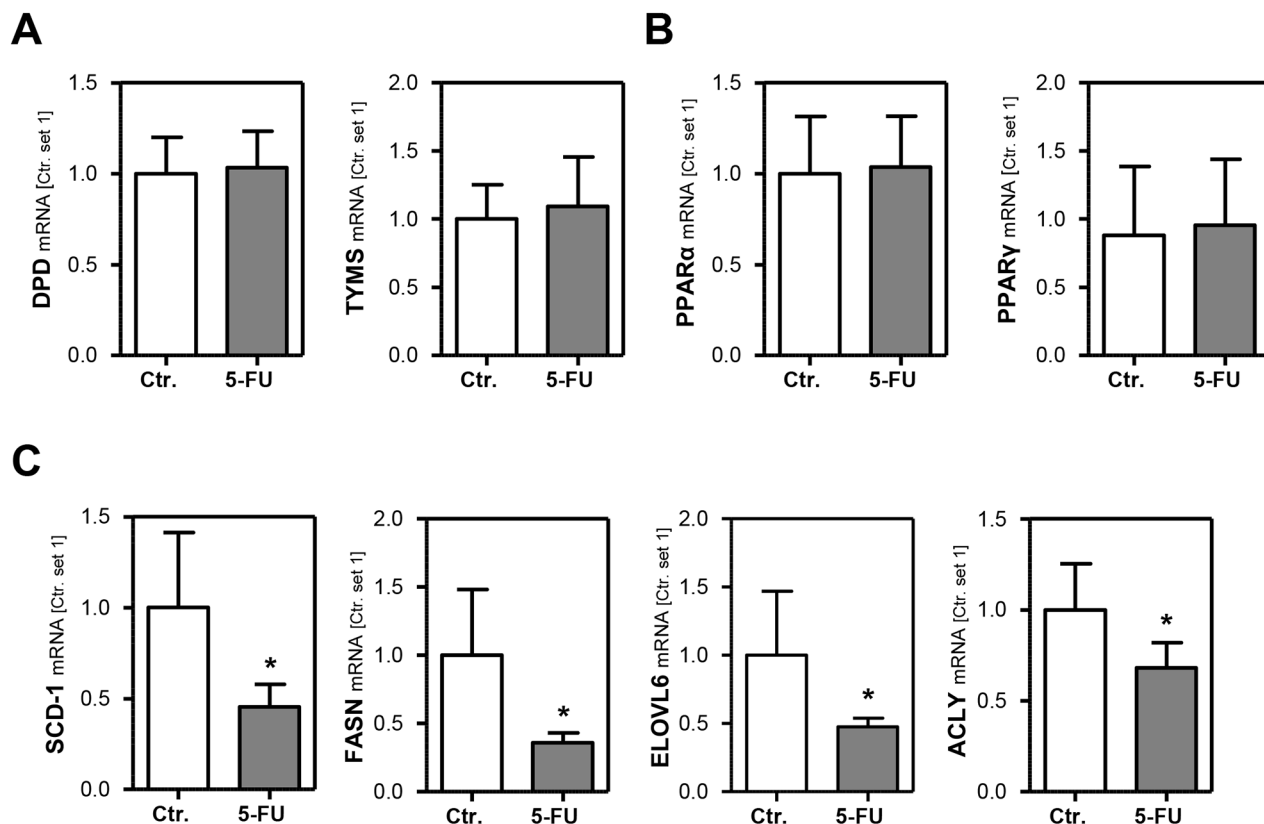
Supplementary Figure 1: Effect of 5-FU on expression of metabolizing enzymes. HepG2 cells were incubated with 5-FU (200 μ M) for different times as indicated. Analysis of mRNA levels of **A**. TYMS and **B**. DPD by quantitative RT-PCR (*: $p < 0.05$ compared to control).



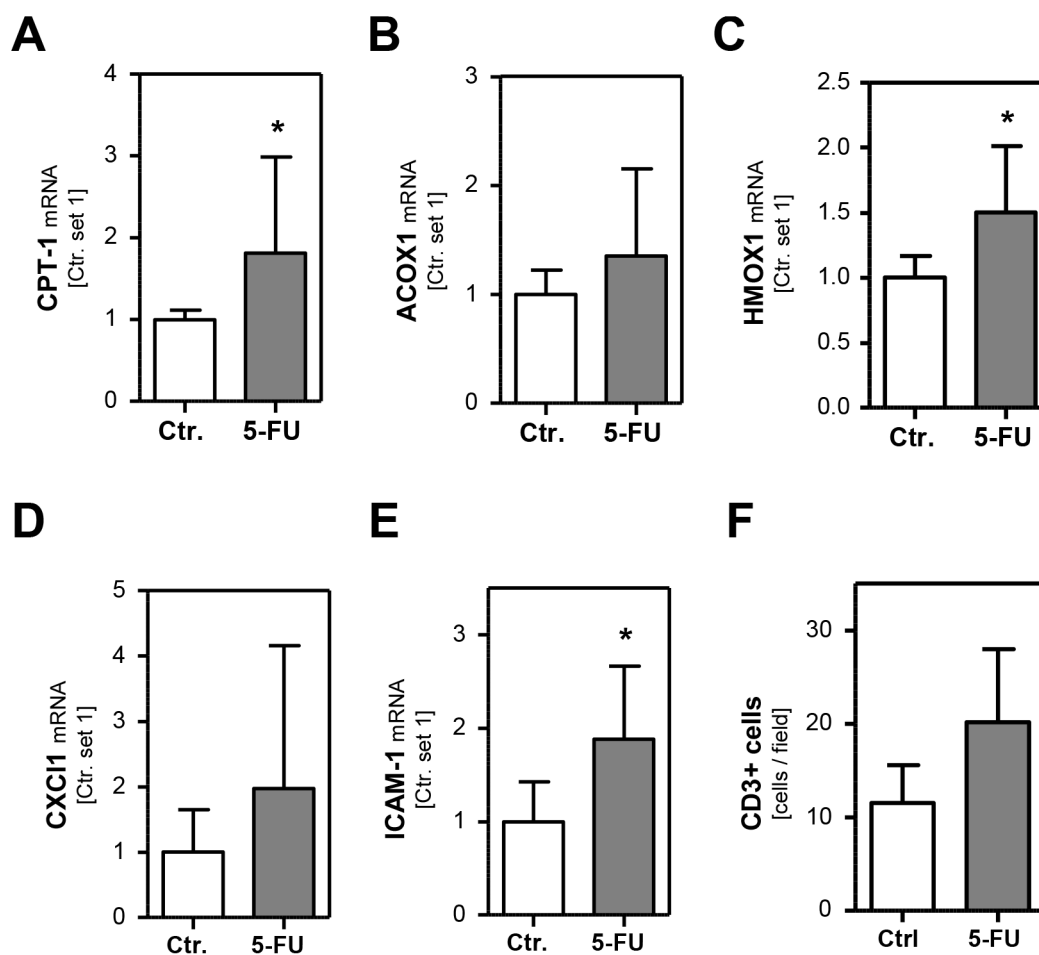
Supplementary Figure 2: Effect of 5-FU on ACLY expression. Analysis of mRNA levels of ACLY by quantitative RT-PCR. **A**. HepG2 cells were incubated with 5-FU for 24h. **B**. HepG2 cells were incubated with 5-FU (200 μ M) for different times as indicated. **C**. Primary human hepatocytes were incubated with 5-FU (500 μ M) for 24 h (*: $p < 0.05$ compared to control).



Supplementary Figure 3: Effect of 5-FU on DPD and TYMS expression in primary human hepatocytes and comparison of expression levels with HepG2 cells. PHH were incubated with 5-FU (500 μ M) for 24h. Analysis of mRNA levels of **A.** DPD and **C.** TYMS by quantitative RT-PCR. Comparison of expression levels of **B.** DPD and **D.** TYMS relative to 18S mRNA in untreated HepG2 cells versus untreated PHH. (*: $p < 0.05$ compared to HepG2).



Supplementary Figure 4: Effect of 5-FU on 5-FU-metabolizing enzymes and de novo-lipogenesis in mice. Mice were intraperitoneally injected with a single dose 5-FU (200 mg/kg) and liver tissue samples were collected 24 h after injection. Control mice were injected with solvent isotonic saline solution. Analysis of mRNA levels of **A.** DPD and TYMS, **B.** PPAR α and PPAR γ and **C.** FASN, SCD-1, ELOVL6 and ACLY by quantitative RT-PCR (*: $p < 0.05$ compared to control).



Supplementary Figure 5: Effect of 5-FU on hepatic β -oxidation, oxidative stress and inflammation in mice. Mice were intraperitoneally injected with a single dose 5-FU (200 mg/kg) and liver tissue samples were collected 12 h after injection. Control mice were injected with solvent isotonic saline solution. Analysis of mRNA levels of **A.** CPT-1, **B.** ACOX1, **C.** HMOX1, **D.** CXCL1 and **E.** ICAM-1 by quantitative RT-PCR (*: $p < 0.05$ compared to control). **F.** Quantification of CD3-positive cells.