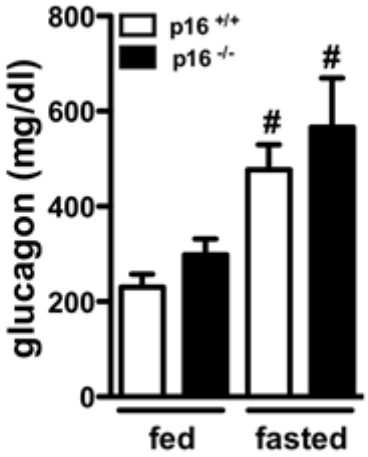
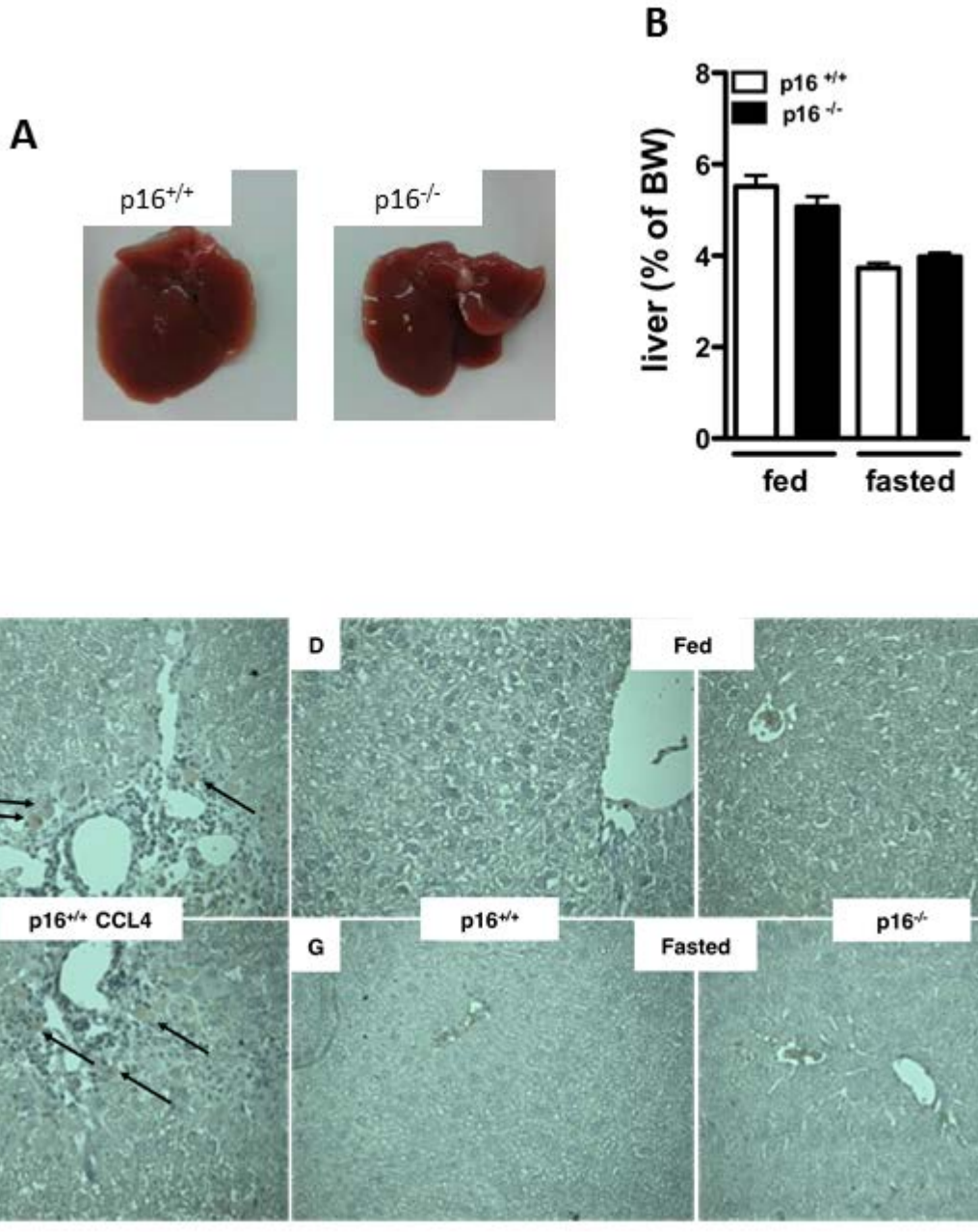
SUPPLEMENTARY DATA

Supplementary Figure 1. p16^{Ink4a}-deficiency does not influence plasma glucagon level. 12 week old p16$^{-/-}$ mice (n=9) and wild-type p16$^{+/+}$ mice (n=9) were fed or fasted and plasma glucagon concentration measured. 2 way ANOVA and LSD Fisher post-hoc test (*compared between the genotypes of the same treatment group; #compared between the treatment groups of the same genotype; *or #<0.05). Data are means ± SEM. Open bars/open squares, p16$^{+/+}$ mice; black bars/black circles, p16$^{-/-}$ mice.



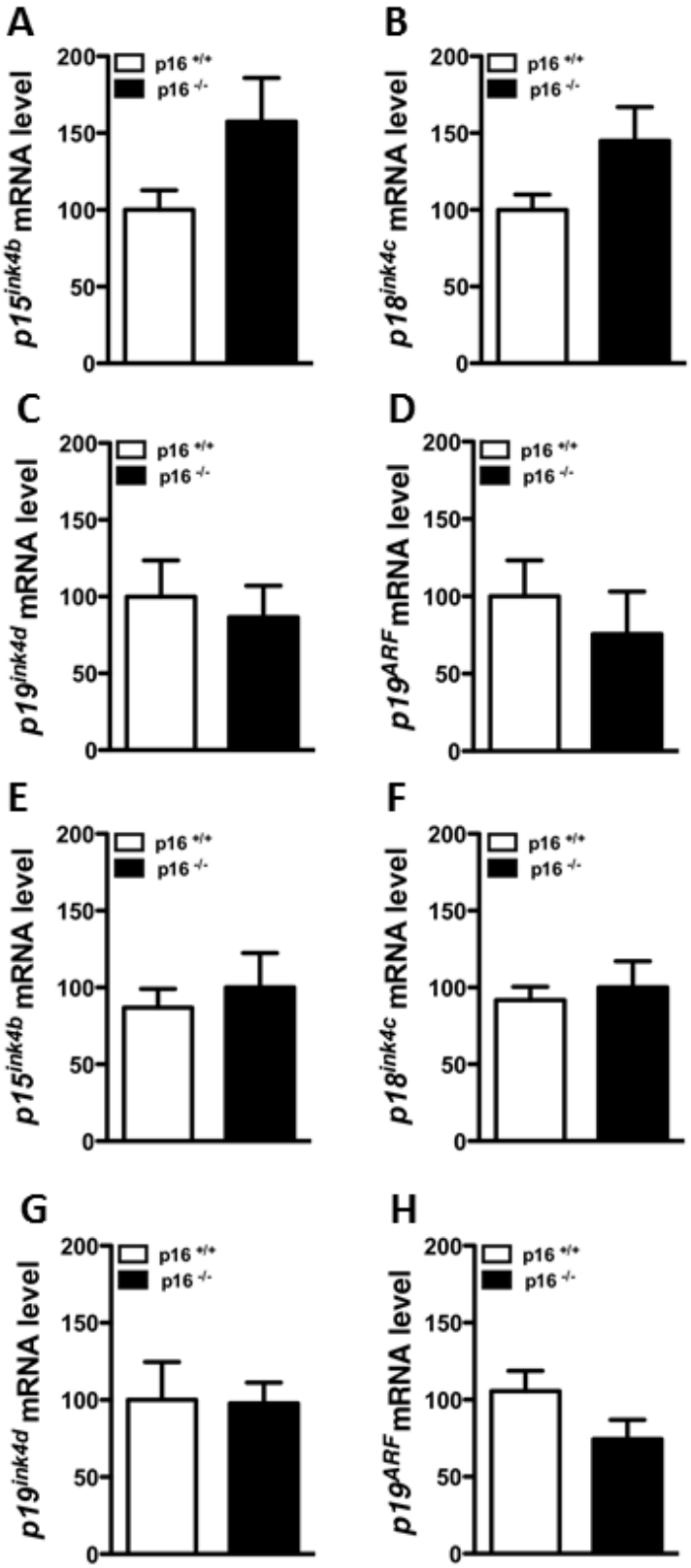
SUPPLEMENTARY DATA

Supplementary Figure 2. (**A**) Macroscopic pictures of livers from $p16^{+/+}$ and $p16^{-/-}$ mice. (**B**) Liver weights of $p16^{+/+}$ and $p16^{-/-}$ mice. (**C**) Immunohistochemical Ki-67 staining of liver sections of $p16^{+/+}$ treated by CCL4 (C-F), $p16^{+/+}$ (D-G) and $p16^{-/-}$ (E-H) mice under fed or fasting condition, indicating no differences between $p16^{-/-}$ mice and their littermate controls under fasting conditions.



SUPPLEMENTARY DATA

Supplementary Figure 3. mRNA levels of $p15^{Ink4b}$ (**A-E**), $p18^{Ink4c}$ (**B-F**), $p19^{Ink4d}$ (**C-G**) and $p19^{ARF}$ (**D-H**) in livers of (**A-D**) fed or (**E-H**) fasted wild-type and $p16^{ink4a}$-deficient mice.



SUPPLEMENTARY DATA

Supplementary Table 1: primer pairs to quantitative RT-PCR

peroxisome proliferator receptor gamma coactivator 1 alpha	*Pgc1a*	NM_008904	sense	GAAAACAGGAACAGCAGCAGAG
			antisense	GGGGTCAGAGGAAGAGATAAAG
phosphoenolpyruvate carboxykinase 1	*Pepck*	NM_000439	sense	AGC CTC GAC AGC CTG CCC CAG G
			antisense	CCA GTT GTT GAC CAA AGG CTT TT
glucose-6-phosphatase, catalytic	*G6pase*	NM_0008061.3	sense	AAT CTC CTC TGG GTG GCA GT
			antisense	TCT CAC AGG TGA CAG GGA ACT
fructose bisphosphatase 1	*Fbp1*	NM_019395	sense	TCCTACGCTACCTGTGTTCTTG
			antisense	GGCAGTCAATGTTGGATGAG
Liver pyruvate kinase	*Lpk*	NM_013631	sense	GAGTCTTCCCCTTGCTCTACC
			antisense	GTCACCACAATCACCAGATCAC
carnitine palmitoyltransferase 1a	*Cpt1a*	NM_013495	sense	CAT CAT GAC TAT GCG CTA CTC
			antisense	CAG TGC TGT CAT GCG TTG G
Long-chain acyl-Coenzyme A dehydrogenase	*Lcad*	NM_007381	sense	ATC TTT TCC TCG GAG CAT GA
			antisense	TTT CTC TGC GAT GTT GAT GC
pyruvate dehydrogenase kinase isoenzyme 4	*Pdk4*	NM_013743	sense	GTT ACA CGT ACT CCA CTG CTC
			antisense	GTA GAT GAT AGC GTC TGT CC
glucokinase	*Gk*	NM_010292	sense	CCC TGA GTG GCT TAC AGT TC
			antisense	ACG GAT GTG AGT GTT GAA GC
p16^{Ink4a} CDKN2A	*p16^{Ink4a}*	NM_009877	sense	CGT ACCCCG ATT CAG GTG AT
			antisense	TTG AGC AGA AGA GCT GCT ACG T
p15^{Ink4b} CDKN2B	*p15^{Ink4b}*	NM_007670.4	sense	TCC ACG GAG CAG AAC CCA ACT G
			antisense	GCA GAT ACC TCG CAA TGT CAC GGT
p18^{Ink4c} CDKN2C	*p18^{Ink4c}*	NM_007671.2	sense	AATGGATTTGGGAGAACTGC
			antisense	GTGTCCAGGAAACCTGCTCT
p19^{Ink4d} CDKN2D	*p19^{Ink4d}*	NM_009878.2	sense	CTGAACCGCTTTGGCAAG
			antisense	AGAACCTTCAGGGTGTCCAG
p19^{ARF} CDKN2A	*p19^{ARF}*	NM_009877.2	sense	GCTCTGGCTTTCGTGAACAT
			antisense	CAGTTCGAATCTGCACCGTA
glucagon receptor	*glucagon R*	NM_008101.2	sense	TTGGTCATCGATTGGCTGCT
			antisense	CACTGAGCCAGACGCTCACA
cyclophilin	*Cyclo*	NM_001123068	sense	GCA TAC GGG TCC TGG CAT CTT GTC C
			antisense	ATG GTG ATC TTC TTG CTG GTC TTG C