Supplementary Materials

Novel Optical Criteria and Mechanisms of Critical Decline in the Liver Regenerative Potential

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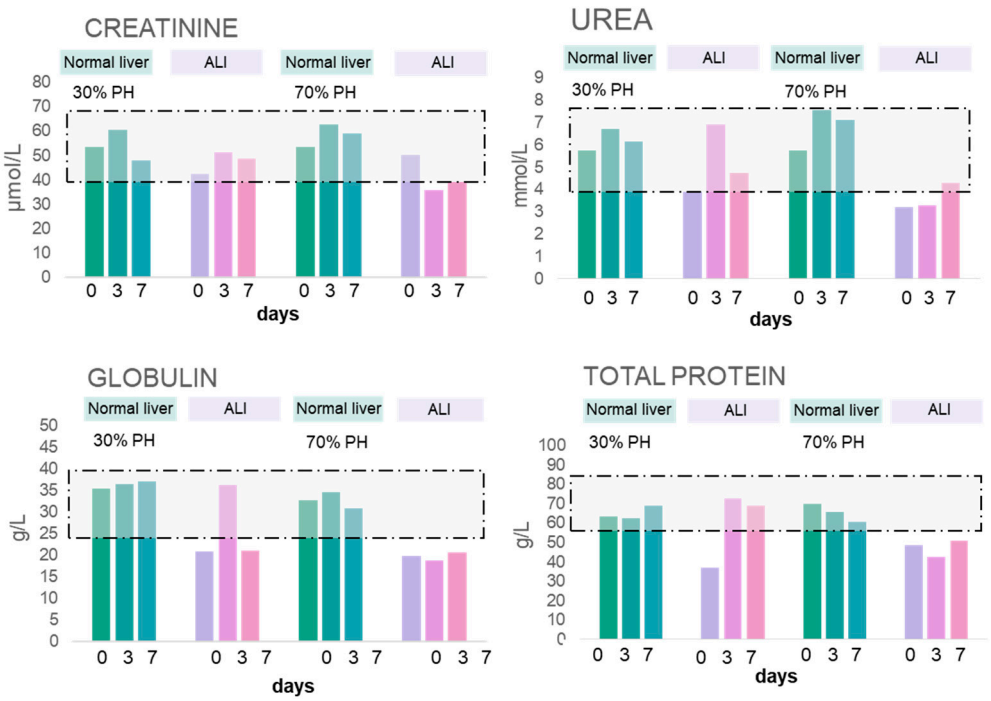

Figure S1. Biochemical parameters in the blood serum of rats during regeneration with concomitant ALI. The areas marked with a dotted line reflects the range of physiological values for each biochemical parameter under study.

Table S1. Analysis of the recovery of liver weight.

	Normal regeneration				**ALI**			
	30% PH		**70% PH**		**30% PH**		**70% PH**	
	3rd day	**7th day**	**3rd day**	**7th day**	**3rd day**	**7th day**	**3rd day**	**7th day**
absolute weight(%)	83,4	88,4	80,9	92,9	86,8	80,2	74,0	87,6
relative weight(%)	-	-	-	-	104,1	90,7	91,5	94,2

Table S2. The primer sequences for RT-PCR.

Primer Target	Primer Sequence
CAT	F: GCTCCGCAATCCTACACCAT R: GGACATCGGGTTTCTGAGGG
CCND1	F: CGTACCCTGACACCAATCTCC R: TCTGCTCCTCGCAGACCTCTA
CDKN1A	F: AAAACGGAGGCAGACCAG R: ACTTCAGGGCTTTCTCTTGC
CTGF	F: GCTGGAGAAGCAGAGTCGTC R: ATGCACTTTTTGCCCTTCTTAATG
CYP2E1	F: AGGCTGTCAAGGAGGTGCTACT R: AAAACCTCCGCACGTCCTTCCA
CYP7A1	F: CTGCCGGTACTAGACAGCATC R: CCGTCCTCAAGATGGAGAGTG
EGFR	F: ATGTCAACAACCAGAAGGGCCAA R: GTGACGCCTTCGCATGAAGA
GSL	F: AAGCATAGCATTTAGATTGCG R: CTGTCCAAGTTCATCACCACTT
GSS	F: CCGAAGGCTGTTTATGGAGGA R: GATCTCTCTAGCAGCAGGCG
HGF	F: TTGCCCTATTTCCCGTTGTGA R: ACCATCCACCCTACTGTTGT
HNF4	F: CGACTCTCTAAAACCCTCGCC R: CAGATGGGGATGTGTCATTGCCC
HPRT	F: CTCATGGACTGATTATGGACAGGAC R: GCAGGTCAGCAAAGAACTTATAGCC
il6R	F: AAGCAGGTCCAGCCACAATGTAG R: CCAACTGACTTTGAGCCAACGAG
PDGFRB	F: TAGCACACATCAGGAGCCATC R: CGAACAGCAACAATTGGCCTCT
TNFR1	F: CCAAGTGCCACAAAGGAACC R: CCGACATGTCTTGCAACTGAG
UCP2	F: TCTCCCAATGTTGCCCGAAA R: CAAGGGAGGTCGTCTGTCAT

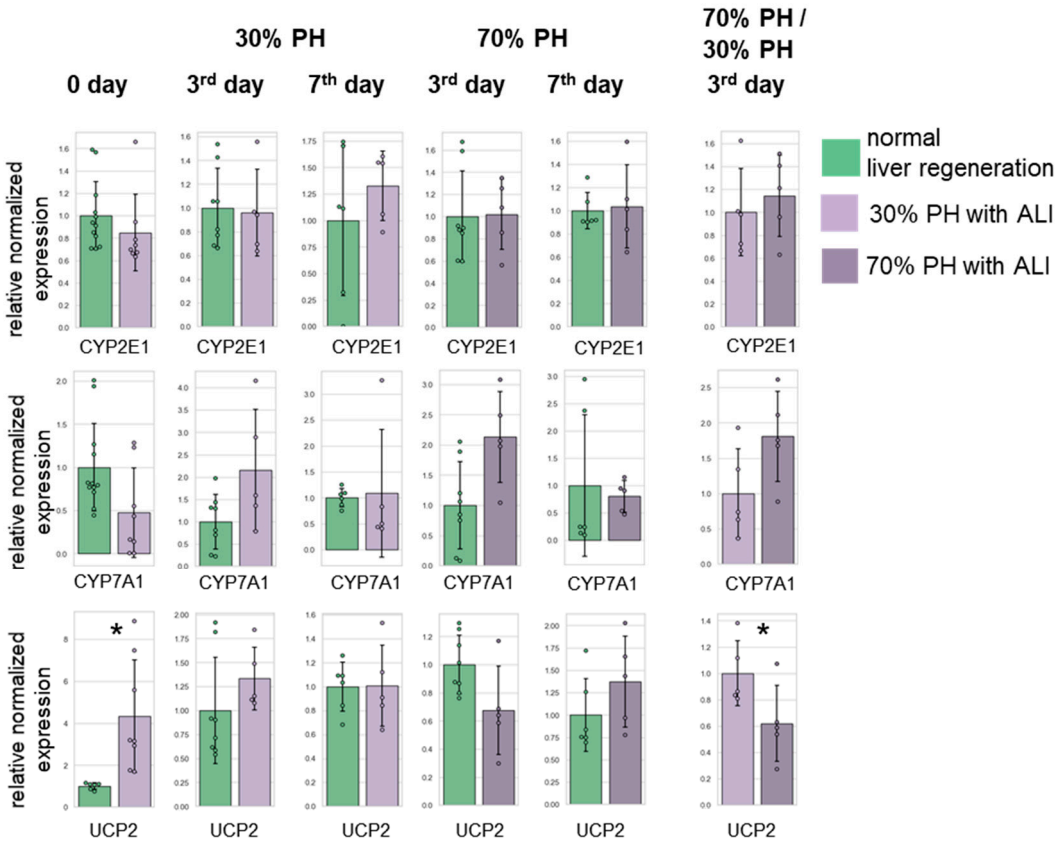

Figure S2. Analysis of changes in gene expression during normal regeneration and during regeneration with ALI. *—statistical differences for time points of normal regeneration from the corresponding time points of regeneration with ALI; p-value ≤ 0.05.