

YMTHE, Volume 28

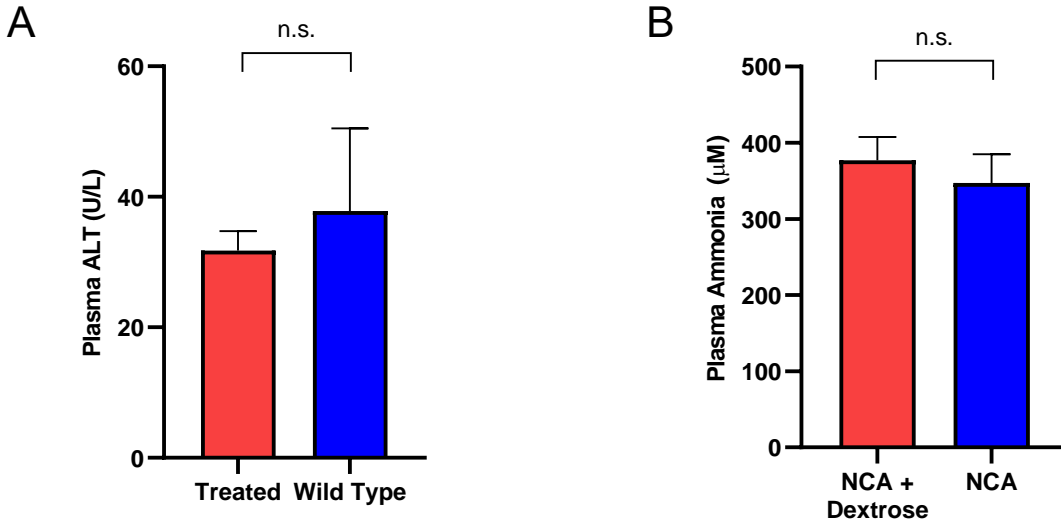
## **Supplemental Information**

### **Split AAV-Mediated Gene Therapy**

### **Restores Ureagenesis in a Murine Model**

### **of Carbamoyl Phosphate Synthetase 1 Deficiency**

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**Supplemental Figure 1.** **A)** Plasma alanine aminotransferase levels in sAAV-treated (n=4) and wild type (n = 5) mice are depicted, p = 0.69. **B)** Plasma ammonia levels are depicted in mice that received NCA with or without 5% dextrose (n = 5 mice per group), p = 0.80. Data is presented as the mean ± SEM. ALT, alanine aminotransferase; NCA, N-carglumic acid; n.s., not significant; SEM, standard error of the mean.

**Supplemental Table 1.** Ammonia challenge behavioral scores. Scores are out of 7; N/A denotes mice that perished prior to scoring.

<u>Treated Females</u>		<u>Treated Males</u>	
Mouse	Score	Mouse	Score
1	6	1	N/A
2	4	2	3
3	7	3	4
4	7	4	3
5	6	5	6

**Supplemental Table 2.** List of primers

<b>DNA PCR</b>	<b>Sequence</b>	<b>Amplicon Size (bp)</b>
LF LR	CGGAGCTGAAGTCCATCTTGTCC CAGCCGCGCATTCACTTCGAT	1444
RF RR	ATCGAAGTGAATGCGCGGCTG TCCCACCGAGGAATCTTAGTCACCATATA	194
<b>qPCR</b>		
Left sAAV F Left sAAV R	GGTTACGCTCTCGATAAATACGC CCCTCGTTTGTCTGATCATTT	77
Right sAAV F Right sAAV R	TACCCAACAACCTTGCTGTACCT GAGCTTGAGCGACTTTGAGTTCGT	135
Total CPS1 F Total CPS1 R	CTTTGGCCATCCCTCCTCTG TTGGCCATGGTGAGGATCTG	114
$\beta$ -Actin F $\beta$ -Actin R	CTAAGGCCAACCGTGAAAAG ACCAGAGGCATACAGGGACA	104

GAPDH F	GCTCTCTGCTCCTCCTGTTC	115
GAPDH R	ACGACCAAATCCGTTGACTC	