

# Supplementary

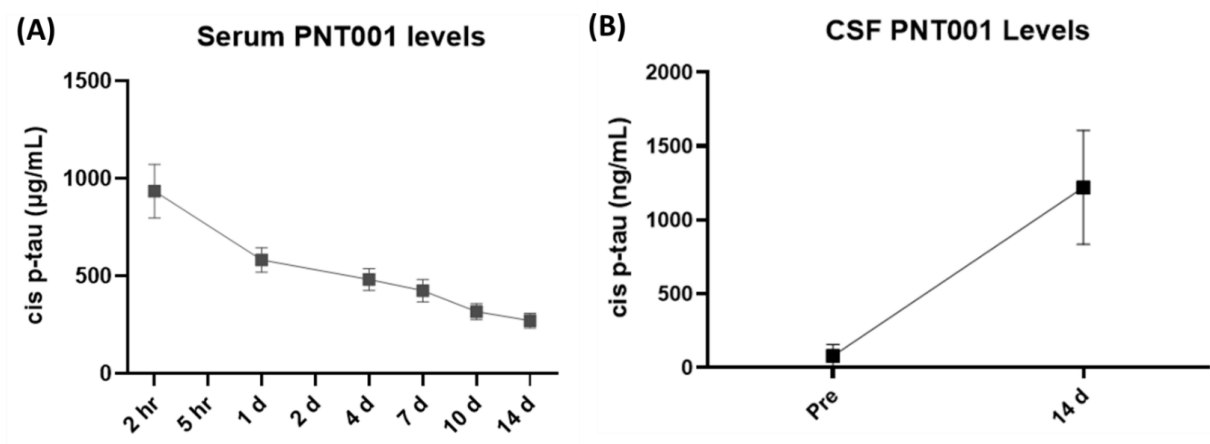
## Exploring the Therapeutic Potential of Phosphorylated Cis-Tau Antibody in a Pig Model of Traumatic Brain Injury

**Table S1.** Difference in change in ln(biomarker) over 14 days post-injury between treatment groups. FA = fractional anisotropy, MD = mean diffusivity.

Difference in Change between Vehicle and PNT001 Groups (95% CI), <i>p</i> -value		
CSF Biomarkers		
NfL	−0.002 (−0.006, 0.001), <i>p</i> = 0.185	
GFAP	0.001 (−0.003, 0.007), <i>p</i> = 0.487	
UCHL-1	−0.001 (−0.003, 0.002), <i>p</i> = 0.724	
Tau	−0.001 (−0.003, 0.001), <i>p</i> = 0.292	
Plasma Biomarkers		
NfL	−0.111 (−0.554, 0.333), <i>p</i> = 0.625	
GFAP	−0.883 (−1.504, −0.261), <i>p</i> = 0.005	
UCHL-1	0.001 (0.000, 0.036), <i>p</i> = 0.729	
MRI DTI Biomarkers		
	Difference in Change Between Vehicle and Sham Groups (95% CI), <i>p</i> -value	Difference in Change Between PNT001 and Sham Groups (95% CI), <i>p</i> -value
FA Corpus Callosum	0.0002 (−0.0006, 0.0009), <i>p</i> = 0.704	0.0002 (−0.0006, 0.0010), <i>p</i> = 0.601
FA Left Cerebral Peduncle	0.0003 (−0.0004, 0.0007), <i>p</i> = 0.373	0.0005 (−0.0003, 0.0012), <i>p</i> = 0.232
FA Right Cerebral Penduncle	0.0006 (−0.0003, 0.0015), <i>p</i> = 0.204	−0.0002 (−0.0003, 0.0015), <i>p</i> = 0.738
FA Left Corona Radiata	0.0006 (−0.0002, 0.0012), <i>p</i> = 0.131	0.0007 (0.0000, 0.0014), <i>p</i> = 0.055
FA Right Corona Radiata	−0.0001 (−0.0010, 0.0009), <i>p</i> = 0.886	0.0002 (−0.0008, 0.0012), <i>p</i> = 0.695
MD Biomarkers		
MD Corpus Callosum	−0.0004 (−0.0012, 0.0005), <i>p</i> = 0.429	0.0003 (−0.0006, 0.0012), <i>p</i> = 0.466
MD Left Cerebral Peduncle	0.0004 (−0.0003, 0.0011), <i>p</i> = 0.258	0.0004 (−0.0004, 0.0011), <i>p</i> = 0.331
MD Right Cerebral Peduncle	0.0005 (−0.0001, 0.0011), <i>p</i> = 0.098	0.0005 (−0.0001, 0.0011), <i>p</i> = 0.104
MD Left Corona Radiata	0.0003 (−0.0002, 0.0007), <i>p</i> = 0.246	0.0004 (−0.0001, 0.0008), <i>p</i> = 0.094
MD Right Corona Radiata	0.0002 (−0.0004, 0.0008), <i>p</i> = 0.511	0.0002 (−0.0004, 0.0007), <i>p</i> = 0.919

**Table S2.** Plasma and CSF biomarker correlation at acute time point (first row) and subacute time point (second row). Given the different time points in which samples were collected for plasma and CSF, we chose the closes matching times with plasma (30 min) and CSF (1 h) for the acute time point. The second row shows the correlation values at 14 days.

	NfL	GFAP	UCHL-1
30 min – 1 h	$\Gamma = 0.2026$ ( <i>p</i> = 0.3785)	$\Gamma = 0.2078$ ( <i>p</i> = 0.3661)	$\Gamma = 0.5165$ ( <i>p</i> = 0.0586)
14 days	$\Gamma = 0.4175$ ( <i>p</i> = 0.0670)	$\Gamma = -0.1221$ ( <i>p</i> = 0.5980)	$\Gamma = 0.1923$ ( <i>p</i> = 0.5291)



**Figure S1.** Exposure Data for serum (A) and CSF (B). Serum PNT001 levels are shown here, with expected decrease over time from 2 h to 14 days. Two time-point CSF levels of PNT001 was measured: prior to the injury, and at 14 days. PNT = PNT001.