

Article

# Chronic Chemogenetic Activation of the Superior Colliculus in Glaucomatous Mice: Local and Retrograde Molecular Signature

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## Supplementary information

**Table S1.** Mean values  $\pm$  SEM for the different techniques used to probe glaucomatous induction (i.e. IOP and anterior chamber depth) and neuro-protection (i.e. pSTR recordings), corresponding to Figure 9a-c.

Experimental group	Mean $\pm$ SEM
IOP (area under the curve)	
SHAM	26.84 $\pm$ 0.53
DREADD	27.36 $\pm$ 0.45
OHT	34.97 $\pm$ 0.93
OHT + DREADD	33.68 $\pm$ 1.00
Anterior chamber depth ( $\mu$ m)	
SHAM	388.87 $\pm$ 2.48
DREADD	385.11 $\pm$ 3.28
OHT	472.22 $\pm$ 9.91
OHT + DREADD	472.04 $\pm$ 10.62
pSTR ( $\mu$ V)	
SHAM	160.79 $\pm$ 5.61
DREADD	170.74 $\pm$ 5.22
OHT	129.90 $\pm$ 5.94
OHT + DREADD	121.83 $\pm$ 4.63

**Table S2.** Estimation statistics (Hedges' g values with corresponding confidence intervals) for the different techniques used to probe glaucomatous induction (i.e. IOP and anterior chamber depth) and neuroprotection (i.e. pSTR recordings), corresponding to Figure 9a-c.

Comparison	Unpaired Hedges' g	95% Confidence interval
IOP		
SHAM VS. DREADD	0.18	[-0.31, 0.67]
SHAM VS. OHT	1.75	[1.24, 2.23]
SHAM VS. OHT + DREADD	1.42	[0.92, 1.87]
ANTERIOR CHAMBER DEPTH		
SHAM VS. DREADD	-0.22	[-0.74, 0.26]
SHAM VS. OHT	1.87	[1.45, 2.28]
SHAM VS. OHT + DREADD	1.78	[1.28, 2.37]
pSTR		
SHAM VS. DREADD	0.32	[-0.16, 0.83]
SHAM VS. OHT	-0.92	[-1.4, -0.43]
SHAM VS. OHT + DREADD	-1.32	[-1.8, -0.81]