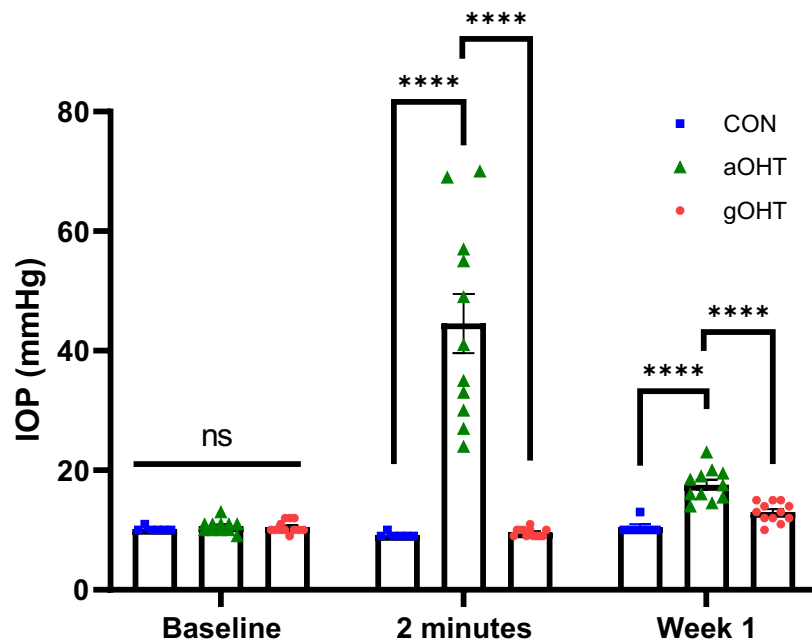


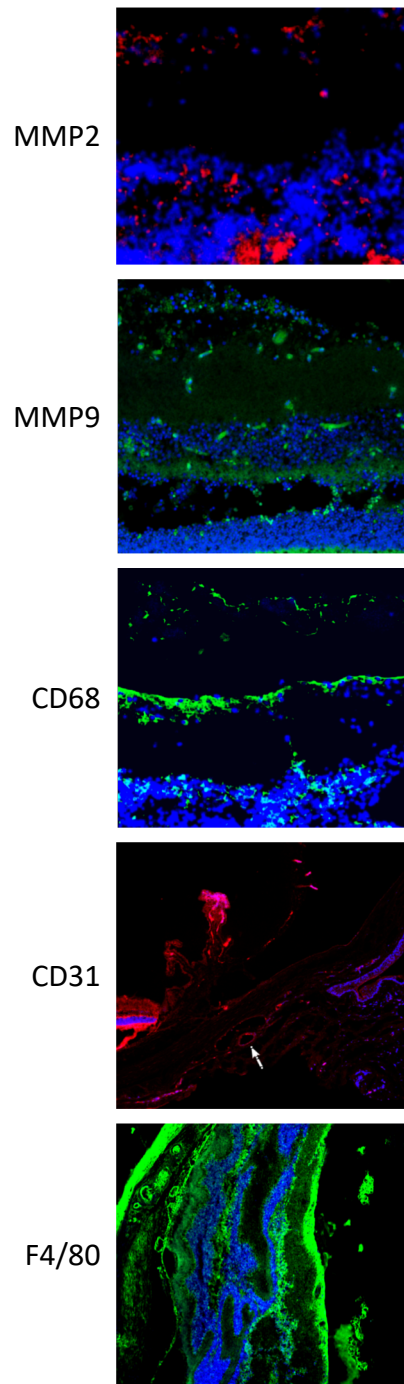
Supplementary Figures

An Inducible Rodent Glaucoma Model that Exhibits Gradual Sustained Increase in Intraocular Pressure with Distinct Inner Retina and Optic Nerve Inflammation

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Supplementary Figure 1: Animals sutured with the tightened aOHT method result in induction of a strong IOP spike immediately following surgery, but snugly sutured gOHT eyes do not result in any change in IOP after one week (n>10, bars are S.E.).



Supplementary Figure 2: Positive confocal microscopy controls generated using intravitreal paraquat injection to induce inflammation in rat eyes 48 hours prior to tissue processing.

	CON optic nerve			aOHT optic nerve			gOHT optic nerve			CON retina			aOHT retina			gOHT retina			CON angle tissue			aOHT angle tissue			gOHT angle tissue		
	Mean	SEM		Mean	SEM		Mean	SEM		Mean	SEM		Mean	SEM		Mean	SEM		Mean	SEM		Mean	SEM		Mean	SEM	
TGF β1	8.65	1.44		5.84	1.99		11.64	2.15		7.70	0.95		5.73	0.95		5.72	1.58		32.42	11.01		45.36	9.29		57.75	5.42	
TGF β2	26.99	4.02		18.95	6.37	40.71	3.31	235.20	74.05	121.20	39.28		190.57	64.35		190.57	64.35		82.20	29.88		113.47	18.85		116.49	18.78	
TGF β3	1.90	0.35		1.58	0.24	3.07	0.13	3.32	0.37	0.26	0.24		0.26	0.24		0.26	0.24		6.14	2.12		8.52	1.34		10.00	1.07	
G-CSF	-	-		80.59	16.78		64.65	9.06		70.12	6.31		98.23	11.72		99.04	10.21		41.75	0.00		117.12	11.00		91.90	10.88	
Eotaxin	2.26	0.49		1.99	0.25		2.15	0.18		3.94	0.32		4.16	0.27		3.07	0.52		4.12	0.36		4.87	0.56		4.36	0.26	
GM-CSF	17.34	3.20		11.42	2.17		13.47	2.02		21.79	5.55		23.37	1.60		15.59	3.67		3.56	1.59		11.75	3.06		4.46	2.69	
IL-1α	7.60	0.62		11.87	1.88		14.71	1.01		18.52	4.20		22.79	2.87		21.72	3.26		15.76	0.76		20.95	2.25		35.78	9.50	
Leptin	494.18	102.67		437.04	66.59		623.99	115.95		335.95	5.64		334.47	12.89		348.54	25.96		1054.30	163.05		1037.84	153.60		1158.90	112.72	
MIP-1α	1.33	0.08		1.28	0.23		2.49	0.59		2.14	0.43		2.92	0.42		2.43	0.47		1.47	0.22		3.84	0.88		10.28	6.51	
IL-4	2.81	0.00		5.85	1.21		2.81	0.00		7.54	2.47		11.53	1.18		7.84	1.44		7.51	2.36		9.21	1.37		6.59	1.32	
IL-1β	34.36	5.57		29.08	3.85		40.42	7.28		84.85	6.35		98.04	3.40		94.25	5.10		97.64	7.75		99.76	6.95		197.04	60.06	
IL-2	9.34	2.87		5.75	1.25		14.36	1.52		36.55	12.31		47.01	10.76		34.09	4.20		11.13	4.44		26.19	6.46		12.93	1.73	
IL-6	-	-		-	-		73.72	0.00		329.54	66.02		583.33	161.21		545.96	161.87		73.72	0.00		146.58	36.43		303.25	101.12	
EGF	1.81	0.42		2.50	0.52		3.57	1.14		1.21	0.53		0.55	0.13		1.17	0.18		3.54	0.45		6.08	2.38		8.52	2.44	
IL-13	1.43	0.67		2.77	0.80		2.46	0.97		7.90	3.11		12.74	2.38		10.26	0.69		1.81	1.02		4.79	1.00		3.27	1.00	
IL-10	11.85	2.54		12.28	1.22		16.05	0.94		22.03	2.98		32.53	1.93		28.87	2.79		13.63	2.17		23.69	2.72		19.38	1.66	
IL-12p70	6.29	0.92		5.25	0.88		5.42	1.09		7.51	0.52		13.77	1.39		6.82	1.06		3.60	0.26		6.29	1.92		7.41	2.08	
IFNγ	70.81	6.18		77.07	12.21		80.05	5.83		121.66	16.81		142.56	12.29		131.94	12.84		114.55	10.61		130.46	13.53		112.13	10.05	
IL-5	13.89	2.57		11.14	1.05		9.96	1.58		32.99	5.25		43.80	3.23		28.51	5.24		17.30	2.48		15.83	2.55		17.40	2.86	
IL-17A	1.19	0.41		0.18	0.00		1.18	0.69		14.70	3.47		22.82	1.88		11.69	3.11		2.25	0.13		2.51	0.49		4.11	1.04	
IL-18	429.73	76.81		578.71	51.39		755.57	33.58		137.16	6.28		151.42	20.05		183.80	5.81		2042.14	172.44		2410.98	175.50		2240.96	270.88	
MCP-1	40.77	11.47		25.47	5.50		67.53	4.83		120.29	44.28		128.30	26.22		91.72	11.40		59.89	6.24		66.25	14.29		49.69	8.30	
IP-10	7.24	0.61		7.73	0.52		7.23	0.20		10.41	0.25		13.40	2.33		12.74	2.17		10.67	0.20		11.88	1.15		16.90	6.64	
GRO/KC	130.85	22.91		109.92	9.13		112.71	2.11		140.38	13.45		167.50	13.31		148.07	11.39		126.04	14.95		129.32	16.19		103.33	10.44	
VEGF	2.44	1.28		3.47	1.20		2.04	0.71		17.55	1.71		18.84	1.56		28.82	2.02		11.35	2.49		11.61	2.16		19.48	2.91	
Fractalkin	10.17	1.36		12.39	1.48		16.91	2.32		50.90	4.85		52.53	7.99		56.76	6.06		95.64	9.62		94.42	10.04		111.38	18.21	
LIX	12.44	1.21		12.99	1.26		18.16	1.15		18.38	4.32		24.55	2.86		20.04	3.06		16.43	2.06		27.25	3.66		41.68	9.20	
MIP-2	30.53	6.01		29.79	3.04		31.95	6.13		46.29	7.47		44.15	4.95		38.02	5.83		9.76	0.00		-	-		100.46	82.11	
TNFA	8.39	5.69		3.61	1.57		3.10	0.76		34.20	3.37		39.00	7.29		42.02	10.74		34.67	3.13		31.26	5.86		19.16	2.06	
RANTES	1.09	0.19		1.00	0.13		0.90	0.17		1.02	0.09		0.96	0.06		0.89	0.13		8.14	0.82		7.30	1.25		9.24	2.46	

Supplementary Table 1: Complete cytokine panel results for CON, aOHT and gOHT eyes. Values are in pg/ml, and those that are significantly different from control (p<0.05) are emboldened.