



**Supplemental Figure S1.** Levels of *mcr* are decreased after NMDA-treatment, the MCR-agonist aldosterone has little effect upon the proliferation of MGPCs, and aldosterone does not influence FGF2/MAPK-signaling. **A**; qRT-PCR was used to measure levels of mRNA for *mcr* at 4 hrs, 1 day, 2 days and 3 days after NMDA-treatment. The histogram illustrates the mean ( $\pm$ SD; n=4) percentage change of mRNA. Significance of difference between control and treated groups was determined by using a two-tailed Mann-Whitney U test (\*\*p<0.01, ns-not significant). **B** and **C**; histograms illustrate the mean ( $\pm$ SD; n=8) number of proliferating MGPCs or NIRG cells per field of view in retinas treated with NMDA + vehicle (control) or NMDA + aldosterone (treated). Significance of difference (ns - not significant) for treated vs control data sets was determined by using a two-tailed, paired t-test. **D-K**; Retinas were obtained from eyes that were injected 2 consecutive days with FGF2  $\pm$  aldosterone, and harvested 24 hrs after the last injection. Retinal sections were labeled with antibodies to pERK1/2 (**D** and **E**; green), cFos (**F** and **G**; green), Egr1 (**H** and **I**; green), pS6 (**J** and **K**; green), Sox2 (**D-G**, **J**, **K**; red) or Sox9 (**H** and **I**; red). Hollow arrowheads indicate the nuclei of Müller glia. The 50  $\mu$ m bar in **K** applies to **D-K**.

**Supplementary Table S1. PCR Primer sequences and predicted product sizes**

<b>Gene</b>	<b>Forward primer 5'-3'</b>	<b>Reverse primer 5'-3'</b>	<b>Product size (bp)</b>
<i>gcr</i>	AAC CTG CTC TGG CTG ACT TC	GCC TGA AGT CCG TTT CTC CA	186
<i>hsd1</i>	GGT GCA GAT GGT CTC ACA CA	CAG AAA CTC GGG AGC AAG GT	163
<i>hsd2</i>	AAA GTC AGC CTC ATC CTG CC	TGA ACT GCC GGT TGA TCT CC	154
<i>mcr</i>	TCA AAA CCA GAC ACA GCC GA	GGT CCT CGA GAG GCA AGT TT	124
<i>il6</i>	TTA GTT CGG GCA CAA TCC TC	GGT TCC TGA AAC GGA ACA AC	72
<i>il6R<math>\alpha</math></i>	AAA GAT GTG CTC TGC GAG TG	AAC CTG CGC TTC ATC CAT AG	80
<i>il1<math>\beta</math></i>	GCA TCA AGG GCT ACA AGC TC	CAG GCG GTA GAA GAT GAA GC	131
<i>tnfa</i>	AGC AGC GTT TGG GAG TGG GC	GCA GAT GGG GCA GGA AAG CCA	133
<i>adam17</i>	AGC GAG TGC CCT CCT CCT GG	TTG CAG GCA CAC GAG CGG AG	125
<i>cNotch1</i>	GGC TGG TTA TCA TGG AGT TA	CAT CCA CAT TGA TCT CAC AG	154
<i>cDelta1</i>	CAC TGA CAA CCC TGA TGG TG	TGG CAC TGG CAT ATG TAG GA	152
<i>cDll4</i>	GGT CTG CAG CGA GAA CTA CT	TGC AGT ATC CAT TCT GTT CG	181
<i>cJag1</i>	TGA TAA GTG CAT TCC ACA CC	CAG GTA CCA CCA TTC AAA CA	149
<i>cHes1</i>	CGC TGA AGA AGG ATA GTT CG	GTC ACT TCG TTC ATG CAC TC	175
<i>cHes5</i>	GGA GAA GGA GTT CCA GAG AC	AAT TGC AGA GCT TCT TTG AG	143
<i>ascl1a</i>	AGG GAA CCA CGT TTA TGC AG	TTA TAC AGG GCC TGG TGA GC	187
<i>c3</i>	TCC CCC ATG AGG AAT GGG AT	ATA GTC CAT GTC CCC AGG CT	74
<i>c3aR</i>	CACT CGC ATA TGC CAA CAG C	GCC TTT GCT CTG AAG TCC CT	73
<i>gapdh</i>	CAT CCA AGG AGT GAG CCA AG	TGG AGG AAG AAA TTG GAG GA	161

**Supplementary Table S2. Antibodies, sources and working dilutions.**

Antigen	Working dilution	Host	Clone or catalog number	Source
<b>Primary antibodies</b>				
GCR	1:400	rabbit	PA1-511A	Thermo Scientific
GCR	1:500	rabbit	H-300 sc-8992	Santa Cruz Immunochemicals
Sox2	1:1000	goat	Y-17	Santa Cruz Immunochemicals
Sox9	1:2500	rabbit	AB5535	Millipore Billerica, MA
Nkx2.2	1:80	mouse	74.5A5	Developmental Studies Hybridoma Bank (DSHB) Iowa City, IA
Top <sub>AP</sub>	1:100	mouse	2M6	Dr. P. Linser University of Florida
BrdU	1:200	rat	OBT00030S	AbD Serotec Raleigh, NC
Egr1	1:1000	goat	AF2818	R&D Systems
pERK1/2	1:200	rabbit	137F5	Cell Signaling Technologies
cFos	1:400	rabbit	K-25	Santa Cruz Immunochemicals
pS6	1:400	rabbit	2215	Cell Signaling Technologies
neurofilament	1:50	mouse	RT97	DSHB
CD45	1:200	mouse	HIS-C7	Cedi Diagnostic
p38 MAPK	1:400	rabbit	12F8	Cell Signaling Technologies
pCREB	1:500	rabbit	87G3	Cell Signaling Technologies
<b>Secondary antibodies</b>				
Goat IgG	1:1000	donkey	Alexa488/568	Invitrogen
Rabbit IgG	1:1000	goat	Alexa488/568/647	Invitrogen
Mouse IgG	1:1000	goat	Alexa488/568/647	Invitrogen
Rat IgG	1:1000	goat	Alexa488	Invitrogen