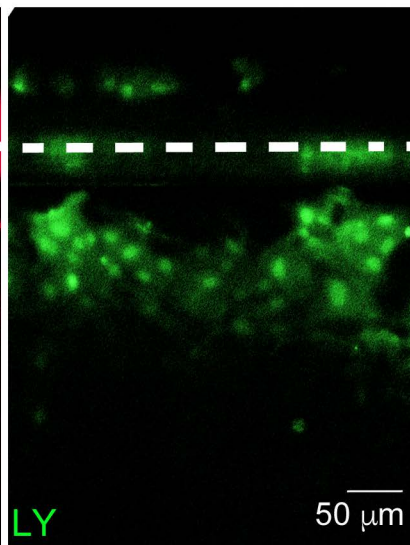
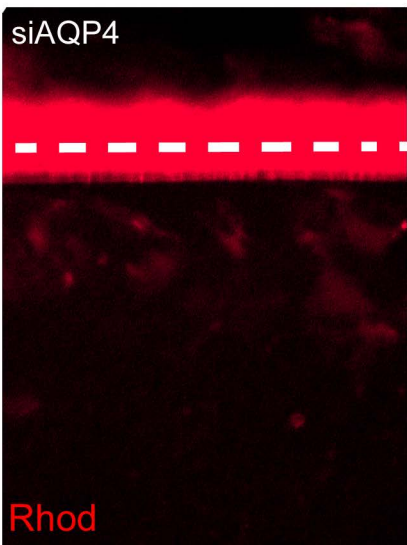
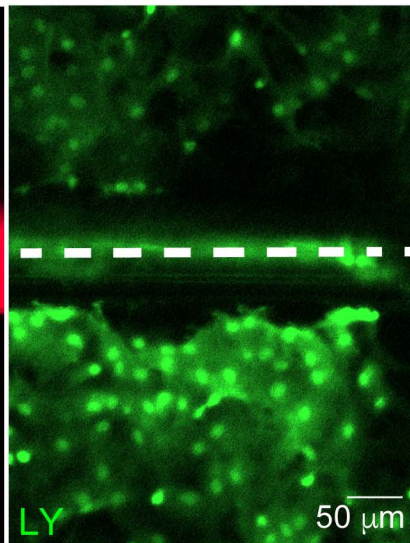
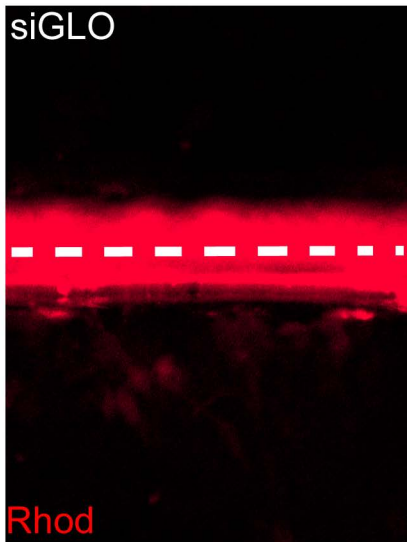


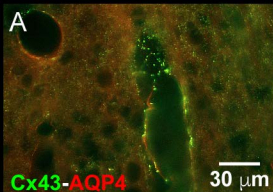
Modulating the water channel AQP4 alters miRNA expression, astrocyte connectivity and water diffusion in the rodent brain

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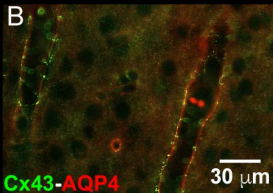


Supplementary Figure 5: “Scrape loading experiments (white dotted line) on astrocyte cultures revealed the effect of siAQP4 on astrocyte connectivity. Lucifer yellow (LY) spreading was decreased in the siAQP4-transfected astrocytes. Rhodamine B-Dextran (rhod) loading was similar and did not diffuse at distance from the site of scrape loading in both conditions. Scale bars: 50 μ m

siGLO

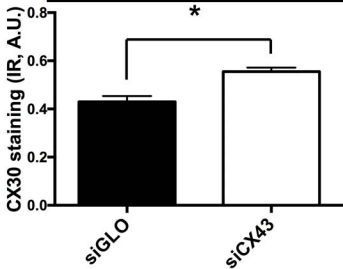
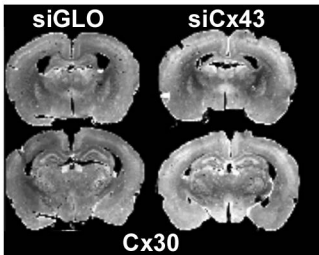


siCx43



Supplementary Figure 6. Effects of siCx43 on AQP4 and Cx43 expression.

Double immunolabeling of AQP4 (red) and Cx43 (green) after intracortical injection of siGLO (A) and siCx43 (B) showed a decreased of Cx43 staining (green) and no major change in AQP4 expression (red). Scale bars: 30 μ m.



Supplementary Figure 7. Effects of siCx43 on Cx30 expression.

Intracortical injection of siCx43 induced an increased expression of Cx30 as shown by infra-red immunohistochemistry (top of the figure) and on the quantification.