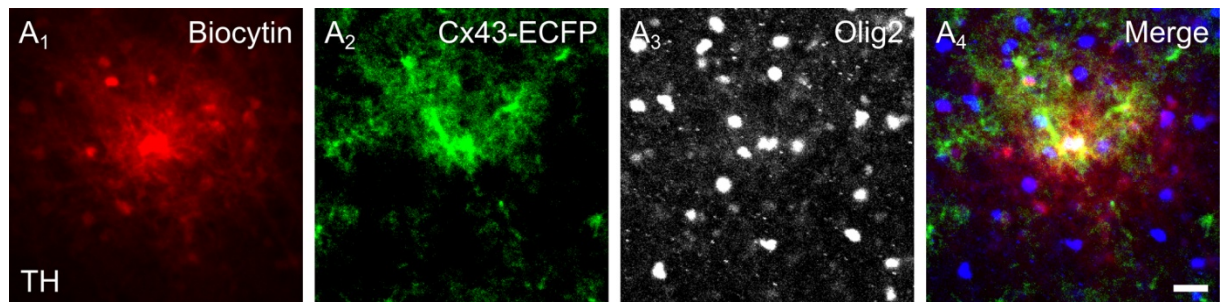
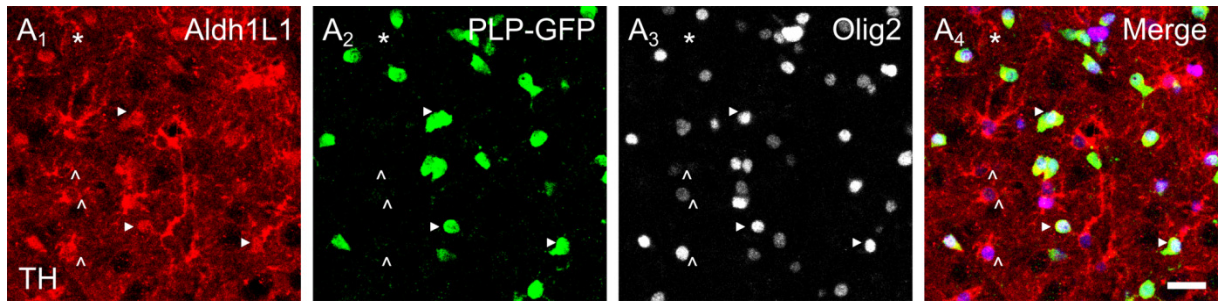


Supplementary Figure 1: A:O coupling in juvenile (p9-p11) mice. Astrocytes in the thalamus (TH) of PLP-GFP mice were identified by SR101 labelling (not shown). Astrocytes were tracer filled (A₁, indicated by AC) and co-stained for GFP (A₂) revealing diffusion of the tracer into PLP-GFP⁺ oligodendrocytes (A₃). Scale bar, 20 μ m.



Supplementary Figure 2: Cx43-expressing cells in biocytin filled networks also express Olig2. ECFP⁺ astrocytes in the thalamus (TH) of Cx43^{ECFP/+} mice were filled with biocytin (A₁) and subsequently stained for Cx43-ECFP (A₂) and Olig2 (A₃). In the merged image the overlap of biocytin, ECFP and Olig2 is visible in two cells in the center of the network (A₄). Scale bar, 20 μ m.



Supplementary Figure: 3 Aldh1L1 is not a reliable marker for thalamic astrocytes. Immunostaining for Aldh1L1 (A₁) was performed in PLP-GFP (A₂) mice. Additionally, the transcription factor Olig2 (A₃) was stained (blue in A₄). Aldh1L1⁺ cells express Olig2 at variable amounts (^) whereas some cells do not express Olig2 at all (*). Unexpectedly, many PLP-GFP⁺ cells were stained by Aldh1L1 antibodies (white arrow heads). Scale bar, 20 μ m.