



Supplementary Materials for  
**Glia as Architects of Central Nervous System Formation and Function**

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**This PDF file includes:**

Supplementary Reading List

## Supplementary Reading List

Here we provide further source material for interested readers. We supplement the citations in our core manuscript with additional topic-specific reviews and original research manuscripts, focusing on observations and conclusions described and outlined in the main manuscript for which we were not able to provide primary citations, due to space constraints. The supplementary reference list is structured to mirror the narrative of our piece. At the end, we include an extended list of references on the topic of glial cell diversity, which is an emerging area of intense investigation.

### Glia in CNS formation

#### *Glia are the principle regulators of cell number in the CNS*

##### *Radial glia (and derivatives) as progenitors*

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18. E. M. Gibson *et al.*, Neuronal activity promotes oligodendrogenesis and adaptive myelination in the mammalian brain. *Science.* **344**, 1252304 (2014).

### ***Glia influence neuronal migration, axon specification and growth***

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#### **Glia adjust synaptic communication and plasticity**

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### ***Gliotransmitters and neuroplasticity***

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#### ***OPCs and microglia and synaptic function***

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## Neuro-glia-vascular coupling provides metabolic support

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## Glia regulate network level function

### *Astrocytes dynamically alter brain states*

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***Myelination dynamically alters circuit function***  
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### **Glial diversity**

#### ***Sequence based diversity***

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***Anatomical, regional and functional diversity***

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