

Fulton, D. 2015. Institute of Inflammation and Ageing, University of Birmingham, UK.

Data utilised in the following publication: Fannon, J., Tarmier, W. and Fulton, D. (2015), Neuronal activity and AMPA-type glutamate receptor activation regulates the morphological development of oligodendrocyte precursor cells. *Glia*, 63: 1021–1035. <http://dx.doi.org/10.1002/glia.22799>

Files are in swc. format and can be opened in NeuronStudio, Amira, and other 3D image analysis software.

Reconstruction related information		
Subject	Species	Mouse
	Scientific name (species)	
	Strain	50% C57BL6/J 50% CBA
	Gender	
	Developmental stage	Neonatal
	Age	P7-11
Anatomy	Brain (sub)region of soma location	Cerebellar, with cells sampled from all regions including white matter, molecular and granule cell layer, but location for individual cells not recorded
	Cell type	Oligodendrocyte precursor cells identified by expression of NG2 and characteristic morphology
Experiment and Reconstruction	Experimental protocol	Culture - organotypic cerebellar slice cultures, 7-9 DIV
	Experimental condition	Control, TTX and GYKI treated
	Fixation method	PFA (4%)
	Stain	farnesylated GFP (membrane targeted) delivered by recombinant Semliki Forest Virus SFVA7(74)
	Slice thickness	Oringally 350 µm
	Slicing direction	sagittal
	Tissue shrinkage	unknown
	Reconstruction software	Neuron Studio
	Objective type	Oil
Objective magnification	40x	
Data	Number of data files	78 files in total - there are 3 groups: A = TTX treated (28 files) , B = GYKI treated (26 files), C = control (24 files)
	Numerical units	Microns
	Format of data files	swc