

Materials List for:

Measuring the Calcium Dynamics of Individual, Genetically-labeled Neurons of the Developing Mouse Neocortex

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Materials

Name	Company	Catalog Number	Comments
Inverted Microscope	Olympus	IX81	With DSU
Camera	Hamamatsu	Orca-flash2.8 CMOS	
Light Source	Sutter	Lambda XL	
40x Objective	Olympus	Uapo N 340 40x water	NA 1.15, WD 0.25mm
Calcium indicator - Fluo-4 AM	ThermoFisher	F14201	
Cre dependent tdTomato mouse	Jackson Labs	007914	Ai14 mouse from Allen Institute for Brain Science
Dlx5/6 Cre mice	Jackson Labs	008199	Labels inhibitory interneurons. Use a different Cre driver to label different cell types
Sterilizing Filter	Corning	09-761-112	500mL, 0.22 micron bottle-top filter
Millicell Cell Culture Inserts	EMD Millipore	PICM0RG50	30mm diameter, 0.4 micron
slice resting chamber	Warner Instruments	BSC-PC	Prechamber meant to rest slices before imaging
Neorbasal-A Medium	ThermoFisher	10888022	cell culture basal medium
NIS Elements AR	Nikon		image acquisition software