

Spatiotemporal Analysis of Microglial Ca²⁺ Activity at Single-Cell Resolution

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jove.com/video/64300

Materials

Name	Company	Catalog Number	Comments
2% xylocaine jelly	AstraZeneca, UK		
B6(129S6)-Tg(Aif1-tTA)54Kftnk	RIKEN RBC, Japan	RBRC05769	Iba1-tTA mice
B6;129-Actb(tm3.1(tetO-GCaMP6)Kftnk)	RIKEN RBC, Japan	RBRC09552	tetO-GCaMP6 mice
Forceps	Fine science tools, US	13008-12	
G-CEM ONE	GC corporation, Japan		
Glass capillary	Narishige, Japan	GDC-1	
ImageJ	NIH, US		
Isoflurane	Pfizer, US		
Ketamin	Daiichi-Sankyo, Japan		
Kwik-sil	World Precision Instruments, US	KWIK-SIL	
MATLAB, 2020a	MathWorks, US		
Micro cover glass (2 x 2 mm, No.3)	Matsunami, Japan	custom-made	Bottom glass for cranial window
Micro cover glass (3 x 3 mm, No.0)	Matsunami, Japan	custom-made	Upper glass for cranial window
N25X-APO-MP	Nikon, Japan	N25X-APO-MP	Objective lens (25x)
Norland optical adhesive	Edmund optics, US	6101	
Piezo nano-positioning system, Nano-Drive	Mao City Labs, US		
Razor blade	Feather, Japan	FA-10	
Scissors	Fine science tools, US	14060-11	
Steel drill	Minitor, Japan	BS1201	
Stereotaxic instruments	Narishige, Japan	SR-5M-HT	
Super-bond (C&B kit)	Sun Medical, Japan	4560227797382	
Surgical needle hook	Fine science tools, US	10065-15	
Ti:Sapphire laser, MaiTai DeepSee	Spectra Physics, US	Mai Tai eHP DS	
Tweezers	Fine science tools, US	11051-10	
Tweezers	Fine science tools, US	11255-20	
Two-photon microscope	Nikon, Japan	A1R-MP	

UV craft resin	Kiyohara, Japan	UVR	
Xylazine	Bayer, Germany		