

Materials List for:

# Ablation of a Neuronal Population Using a Two-photon Laser and Its Assessment Using Calcium Imaging and Behavioral Recording in Zebrafish Larvae

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URL: <https://www.jove.com/video/57485>

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## Materials

Name	Company	Catalog Number	Comments
NuSieve GTG Agarose	Lonza	Cat.#50080	low-melting temperature agarose
6 cm petri dish	FALCON	Product#:351007	
dissecting needle	AS ONE Corporation	Cat. No. 2-013-01	<a href="https://keystone-lab.com/en/item/detail/404142">https://keystone-lab.com/en/item/detail/404142</a>
LSM7MP	Carl Zeiss		two-photon laser scanning microscope
W Plan-Apochromat 63x/1.0	Carl Zeiss		63X objective lens
Imager.Z1	Carl Zeiss		an epi-fluorescence microscope
ZEN	Carl Zeiss		Image acquisition software for confocal microscopes
Secure-Seal Hybridization Chamber Gasket, 8 chambers, 9 mm diameter x 0.8 mm depth	Molecular Probes	Catalogue # S-24732	Used as a recording chamber in Ca imaging
Imageing Chambers	Grace Bio-Labs	CoverWell Imaging Chambers PCI-A-2.5	Used as a behavioral recording chamber
surgical knife	MANI	Ophthalmic knife MST15	
ORCA-Flash4.0	Hamamatsu Photonics	model:C11440-22CU	a scientific CMOS camera
HCIimage	Hamamatsu Photonics		image acuisition software
Hard Disk Recording module	Hamamatsu Photonics		An software module that enables saving the movie files onto a hard disc drive in a short time
SZX7	Olympus		stereoscope
DF PL 0.5X	Olympus		objective lens for SZX7
Point Grey Grasshopper3 4.1 MP Mono USB3 Visio	FLIR Systems, Inc.	Product No. GS3-U3-41C6NIR-C	CMOS camera
XIMEA xiQ camera	XIMEA	Product No. MQ042RG-CM	CMOS camera
a ring LED light	CCS	Model: LDR2-100SW2-LA	White LED
Nylon mesh 32µm	Tokyo Screen	N-No.380T	<a href="http://www.tokyo-screen.com/cms/sta20347/">http://www.tokyo-screen.com/cms/sta20347/</a>
Nylon mesh 13µm	Tokyo Screen	N-No. 508T-K	<a href="http://www.tokyo-screen.com/cms/sta20347/">http://www.tokyo-screen.com/cms/sta20347/</a>
Metal seive 150 micron aperture	Tokyo Screen		<a href="http://www.tokyo-screen.com/cms/sta20341/#ami">http://www.tokyo-screen.com/cms/sta20341/#ami</a>
Metal seive 75 micron aperture	Tokyo Screen		<a href="http://www.tokyo-screen.com/cms/sta20341/#ami">http://www.tokyo-screen.com/cms/sta20341/#ami</a>
EBIOS	Asahi Food & Healthcare, Co. Ltd.		dry beer yeast

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LabVIEW	National Instruments		an integrated development environment for programming
Mai-Tai HP	Spectra Physics		two-photon laser