

Two-Photon Calcium Imaging of Forebrain Activity in Behaving Adult Zebrafish

 Jose Sandino Bandonil^{*1,2}, Yi-Hsuan Liao^{*1}, Amir Fathi¹, Kuo-Hua Huang^{1,2}
¹Institute of Molecular Biology, Academia Sinica ²Molecular and Cell Biology, Taiwan International Graduate Program, Academia Sinica and Graduate Institute of Life Sciences, National Defense Medical Center

*These authors contributed equally

Corresponding Author

Kuo-Hua Huang

khhuang@gate.sinica.edu.tw

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Materials

Name	Company	Catalog Number	Comments
Acquisition card	MBF Bioscience	Vidrio vDAQ	Microscope
Back-projection film	Kimoto	Diland screen - GSK	present visual stimulus
Band-pass filter (510/80 nm)	Chroma	ET510/80m	Microscope
Base plate for the semi-hexagonal tank	custom made	see supplemental files	recording chamber
Camera filter (<875 nm)	Edmund optics	#86-106	Behavior recording
Camera filter (>700 nm)	Edmund optics	#43-949	Behavior recording
Camera lens	Thorlabs	MVL50M23	Behavior recording
Chameleon Vision-S	Coherent	Vision-S	Laser
Circular plate for the head stage	custom made	see supplemental files	recording chamber
Controller for piezo actuator	Physik Instrumente	E-665. CR	Microscope
Current amplifier	Thorlabs	TIA60	Microscope
Elitened Q-6	Rolence Enterprise	Q-6	Surgery: UV lamp
Emission Filter 510/80 nm	Chroma	ET510/80m	Microscope
Head bar	custom made	see supplemental files	recording chamber
Infrared light	Thorlabs	M810L3	Behavior recording
LED projector	AAXA	P2B LED Pico Projector	present visual stimulus
Moist paper tissue (Kimwipe)	Kimtech Science	34155	Surgery: moist paper tissue
Motorized XY sample stage	Zaber	X-LRM050	Microscope
Neutral Density Filters (50% Transmission)	Thorlabs	NE203B	present visual stimulus
Ø1/2" Post Holder	ThorLabs	PH1.5V	Surgery: hollow tube for cannon
Ø1/2" Stainless Steel Optical Post	ThorLabs	TR150/M	Surgery: fish loading module
Objective lens 16x, 0.8NA	Nikon	CF175	Microscope
Oil-based modeling clay	Ly Hsin Clay	C4086	Surgery: head bar holder
Optical adhesive	Norland Products	NOA68	Surgery: UV curable glue
Photomultiplier tube	Hamamatsu	H11706P-40	Microscope

Piezo actuator	Physik Instrumente	P-725.4CA PIFO	Microscope
Pockels Cell	Conoptics	M350-80-LA-BK-02	Microscope
Red Wratten filter (> 600 nm)	Edmund optics	#53-699	present visual stimulus
Resonant-Galvo Scan System	INSS	RGE-02	Microscope
Right-Angle Clamp for Ø1/2" Post	ThorLabs	RA90/M	Surgery: fish loading module
Rotating Clamp for Ø1/2" Post	ThorLabs	SWC/M	Surgery: fish loading module
ScanImage	MBF Bioscience	Basic version	Microscope
Semi-hexagonal tank	custom made	see supplemental files	recording chamber
Super-Bond C&B Kit	Sun Medical Co.	Super-Bond C&B	Surgery: dental cement
Tricaine methanesulfonate	Sigma Aldrich	E10521	Surgery: anesthetic
USB Camera	FLIR	BFS-U3-13Y3M-C	Behavior recording
Vetbond	3M	1469SB	Surgery: tissue glue