

Materials List for:

Behavioral Tracking and Neuromast Imaging of Mexican Cavefish

McLean Worsham¹, Vânia Filipa Lima Fernandes², Alexander Settle¹, Chantell Balaan², Kimberly Lactaoen², Lillian J. Tuttle^{1,3}, Motoko Iwashita¹, Masato Yoshizawa¹

¹Department of Biology, University of Hawai'i at Mānoa

²Department of Anatomy, Biochemistry and Physiology, University of Hawai'i at Mānoa

³Pacific Biosciences Research Center, University of Hawai'i at Mānoa

Correspondence to: Masato Yoshizawa at yoshizaw@hawaii.edu

URL: <https://www.jove.com/video/59099>

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Materials

Name	Company	Catalog Number	Comments
4-Di-1-ASP (4-(4-(dimethylaminostyryl)-1-methylpyridinium iodide)	MilliporeSigma	D3418	
880 nm wave length black light	Advanced Illumination	BL41192-880	
avfs	freeware	Version 1.0.0.6	http://turtlewar.org/avfs/
Avisynth	freeware	Version 2.6.0	http://avisynth.nl/index.php/Main_Page
Cygwin	freeware	Version 2.11.0	https://www.cygwin.com/
Cylindrical assay chamber (Pyrex 325 ml glass dish)	Corning	3140-100	10 cm diameter 5 cm high
Ethovision XT	Noldus Information Technology, Wageningen, The Netherlands	Version 14	https://www.noldus.com/animal-behavior-research/products/ethovision-xt
Fish Aquarium Cylinder Soft Sponge Stone Water Filter, Black	Jardin (through Amazon.com)	NA	Sponge filter for Sleep/hyperactivity recording system
Grade A Brine shrimp eggs	Brine shrimp direct	BSEA16Z	
ImageJ	freeware	Version 1.52e	https://imagej.nih.gov/ij/
macro 1.8/12.5-75mm C-mount zoom lens	Toyo	NA	Attach to USB webcam by using c-mount, which is printed in 3-D printer
Neutral Regulator	Seachem	NA	
Optical cast plastic IR long-pass filter	Edmund optics	43-948	Cut into a small piece to fit in the CCD of USB webcam
pfpmap	freeware	Build 178	http://pismotec.com/download/(at "Download Archive" link at the bottom)
Reef Crystals Reef Salt	Instant Ocean	RC15-10	
SwisTrack	freeware	Version 4	https://en.wikibooks.org/wiki/SwisTrack
USB webcam (LifeCam Studio 1080p HD Webcam)	Microsoft	Q2F-00013	Cut 2-2.5 cm of the front
WinAutomation	freeware	Version 8	https://www.winautomation.com/(free stand-alone app for this procedure)
Windows operating system	Microsoft	7, 8 or 10	https://www.microsoft.com/en-us/windows
x264vfw	freeware	NA	https://sourceforge.net/projects/x264vfw/