

Materials List for:

# Using Zebrafish Models of Human Influenza A Virus Infections to Screen Antiviral Drugs and Characterize Host Immune Cell Responses

Con Sullivan<sup>1,2</sup>, Denise Jurczyk<sup>1</sup>, Michelle F. Goody<sup>3</sup>, Kristin A. Gabor<sup>4</sup>, Jacob R. Longfellow<sup>1</sup>, Paul J. Millard<sup>2,5</sup>, Carol H. Kim<sup>1,2</sup>

<sup>1</sup>Department of Molecular and Biomedical Sciences, University of Maine

<sup>2</sup>Graduate School of Biomedical Sciences and Engineering, University of Maine

<sup>3</sup>School of Biology and Ecology, University of Maine

<sup>4</sup>Division of Intramural Research, Immunity, Inflammation and Disease Laboratory, National Institute of Environmental Health Sciences, NIH

<sup>5</sup>Department of Chemical and Biological Engineering, University of Maine

Correspondence to: Carol H. Kim at [carolkim@maine.edu](mailto:carolkim@maine.edu)

URL: <https://www.jove.com/video/55235>

DOI: [doi:10.3791/55235](https://doi.org/10.3791/55235)

## Materials

Name	Company	Catalog Number	Comments
Instant Ocean	Spectrum Brands	SS15-10	
100 mm x 25 mm sterile disposable Petri dishes	VWR	89107-632	
Transfer pipettes	Fisherbrand	13-711-7M	
Tricaine-S (MS-222)	Western Chemical		
Borosilicate glass capillary with filament	Sutter Instrument	BF120-69-10	
Flaming/Brown micropipette puller	Sutter Instrument	P-97	
Agarose	Lonza	50004	
Zanamivir	AK Scientific	G939	
Dumont #5 forceps	Electron Microscopy Sciences	72700-D	
Microloader tips	Eppendorf	930001007	
Microscope immersion oil	Olympus	IMMOIL-F30CC	
Microscope stage calibration slide	AmScope	MR095	
MPPI-3 pressure injector	Applied Scientific Instrumentation		
Stereo microscope	Olympus	SZ61	
Back pressure unit	Applied Scientific Instrumentation	BPU	
Micropipette holder kit	Applied Scientific Instrumentation	MPIP	
Foot switch	Applied Scientific Instrumentation	FSW	
Micromanipulator	Applied Scientific Instrumentation	MM33	
Magnetic base	Applied Scientific Instrumentation	Magnetic Base	
Phenol red	Sigma-Aldrich	P-4758	
Low temperature incubator	VWR	2020	
SteREO Discovery.V12	Zeiss		
Illuminator	Zeiss	HXP 200C	
Cold light source	Zeiss	CL6000 LED	
Glass-bottom multiwell plate, 24 well	Mattek	P24G-0-13-F	
Confocal microscope	Olympus	IX-81 with FV-1000 laser scanning confocal system	
Fluoview software	Olympus		
Prism v6	GraphPad		

Influenza A/PR/8/34 (H1N1) virus	Charles River	490710	
Influenza A X-31, A/Aichi/68 (H3N2)	Charles River	490715	
Influenza NS1-GFP			Referenced in Manicassamy <i>et al.</i> 2010
Tg(mpx:mCherry)			Referenced in Lam <i>et al.</i> 2013