

Materials List for:

Quantitative Analysis of Autophagy using Advanced 3D Fluorescence Microscopy

Chun A. Changou^{1,2}, Deanna L. Wolfson², Balpreet Singh Ahluwalia^{2,3}, Richard J. Bold^{4,5}, Hsing-Jien Kung^{5,6}, Frank Y.S. Chuang^{1,2,5}

¹Department of Biochemistry and Molecular Medicine, University of California, Davis

²NSF Center for Biophotonics Science & Technology, University of California, Davis

³University of Tromsø

⁴Department of Surgery (Division of Surgical Oncology), University of California, Davis

⁵UC Davis Comprehensive Cancer Center, University of California, Davis

⁶Department of Biological Chemistry, University of California, Davis

Correspondence to: Chun A. Changou at cchangou@ucdavis.edu

URL: <https://www.jove.com/video/50047>

DOI: [doi:10.3791/50047](https://doi.org/10.3791/50047)

Materials

Name	Company	Catalog Number	Comments
Arginine Deiminase (ADI)	DesigneRx		
HEPES	Sigma	H4034	
Casein	Sigma	C5890	
Paraformaldehyde	Fisher	4042	
Saponin	Sigma	S4521	
Alexa anti-mouse 555	Invitrogen	A21422	
Alexa anti-rabbit 647	Invitrogen	A21244	
LysoTracker Red DND-99	Invitrogen	L7528	
anti-Lamp1	DSHB	H4A3	
anti-Cadherin	Cell Signaling	#3195	
SlowFade Gold	Invitrogen	S36936	
35 mm poly-d-lysine coated glass bottom plate	MatTek	P35GC-1.5-1.4-C	
No.1, 22 mm coverslip	Corning	#2865-22	
Microscope slides	Globe Scientific	1324G	