

Materials List for:

Imaging G-protein Coupled Receptor (GPCR)-mediated Signaling Events that Control Chemotaxis of *Dictyostelium Discoideum*

Xuehua Xu¹, Tian Jin¹

¹Chemotaxis Signal Section, Laboratory of Immunogenetics, National Institute of Allergy and Infectious Diseases, National Institutes of Health

Correspondence to: Xuehua Xu at XXU@niaid.nih.gov

URL: <https://www.jove.com/video/3128>

DOI: [doi:10.3791/3128](https://doi.org/10.3791/3128)

Materials

Name	Company	Catalog Number	Comments
D3-T Growth Media	KD Medical		
Caffeine	Sigma-Aldrich		
Latrunculin B	Molecular Probes, Life Technologies		
Alexa 594	Molecular Probes, Life Technologies		
cAMP	Sigma-Aldrich		
ChronTrol XT programmable timer	ChronTrol Corp		
Minipuls 3 peristaltic pump	Gilbson		
Platform rotary shaker			
FemtoJet microcapillary pressure supply	Eppendorf		
Single- and four-well Lab-Tek II coverglass chambers	Nalge Nunc international		
LSM 510 META or equivalent fluorescent microscope	Carl Zeiss, Inc.		a 40X 1.3 NA or 60X 1.4 NA oil DIC Plan-Neofluar objective lens
Olympus X81 or equivalent	Olympus Corporation		Requires a 100X 1.47 NA TIRF objective lens