

Materials List for:

# Gold Nanorod-assisted Optical Stimulation of Neuronal Cells

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URL: <https://www.jove.com/video/52566>

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## Materials

Name	Company	Catalog Number	Comments
Au NR	Sigma Aldrich	716812	
NG108-15	Sigma Aldrich	8811230	
DMEM	Sigma Aldrich	D6546	
FCS	Life Technologies	10100147	
L-glutamine	Sigma Aldrich	G7513	
Penicillin/streptomycin	Life Technologies	15140122	
Amphotericin B	Life Technologies	15290018	
Formaldehyde	Sigma Aldrich	F8775	
Triton X-100	BDH	T8532	
BSA	Sigma Aldrich	A2058	
Anti- $\beta$ III-tubulin	Promega	G7121	
TRITC-conjugated anti-mouse IgG antibody	Sigma Aldrich	T5393	
DAPI	Invitrogen	D1306	
Fluo-4 AM	Invitrogen	F14201	
DMSO	Sigma Aldrich	472301	
Pluronic F-127	Invitrogen	P6867	
UV-Vis spectrometer	Varian Medical Systems Inc.	Cary 50 Bio	
Mini centrifuge	Eppendorf	Mini Spin	
Sonic bath	Unisonics Australia	FPX 10D	
Cell culture incubator	Kendro	Hera Cell 150	
Cell culture centrifuge	Hettich	Rotofix 32A	
Laser diode	Optotech	780 nm single mode fibre - coupled LD	
Optical fiber	Thorlabs	780 HP	
Power meter	Coherent	Laser Check	
ImageJ	<a href="http://rsb.info.nih.gov/ij/index.html">http://rsb.info.nih.gov/ij/index.html</a>		
Epifluorescent microscope	Axon Instruments	ImageX-press 5000A	
$\mu$ -slide well	Ibidi	80826	
Inverted confocal microscope	Carl Zeiss Microscopy Ltd.	LSM 510 meta-confocal microscope	
Oscilloscope	Tektronix	TDS210	