

Visualizing Shifts on Neuron-Glia Circuit with the Calcium Imaging Technique

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jove.com/video/63338

Materials

Name	Company	Catalog Number	Comments
15 mm coverslip	Paul Marienfeld GmbH & Co. KG	111550	Cell suport
510 nm long-pass filter	Carl Zeiss		
ATP	Sigma	A1852	
B-27 Supplement	Gibco	17504044	Suplement
CaCl ₂	Sigma-Aldrich	C8106	
CoolSNAP digital camera	Roper Scientific, Trenton, NJ		
D-(+)-Glucose	Neon	1466	
DMEM/ F-12	Gibco	12400-24	Cell culture medium
Excel Software	Microsoft		
Fetal Calf Serum	Sigma-Aldrich	F9665	Suplement
Fluorescence Microscope	Axiovert 200; Carl Zeiss	B 40-080	
Fura-2 AM	Molecular Probes	F1221	Ratiometric Ca ²⁺ indicator
Gentamicin Sulfate	Calbiochem	1405-41-0	antibiotics
HEPES	Sigma	H4034	
KCl	Sigma	P5405	
KH ₂ PO ₄	Sigma	P5655	
Lambda DG-4 apparatus	Sutter Instrument, Novato, CA	DG-4PLUS/OF30	
Laminin	Gibco	23017-015	Help cell adhesion
Metafluor software	Universal Imaging Corp. West Chester, PA		
MgCl ₂	Sigma	M4880	
Na ₂ HPO ₄	Vetec	129	
NaCl	Isofar	310	
NaHCO ₃	Vetec	306	
PH3 platform	Warner Intruments, Hamden, CT	64-0286	
Pluronic F-127	Molecular Probes	P6866	nonionic, surfactant

Poly-L-lysine	Sigma-Aldrich	P8920	Help cell adhesion
Trypsin-EDTA 0.25%	Gibco	25200056	Dissociation enzyme