

Materials List for:

# Visualization of Endoplasmic Reticulum Subdomains in Cultured Cells

Matteo Fossati<sup>1,2,3</sup>, Nica Borgese<sup>2,3,4</sup>, Sara Francesca Colombo<sup>2,3</sup>, Maura Francolini<sup>1,2</sup>

<sup>1</sup>Fondazione Filarete

<sup>2</sup>Department of Biotechnology and Translational Medicine, University of Milan

<sup>3</sup>Neuroscience Institute, National Research Council (CNR)

<sup>4</sup>Department of Health Science, "Magna Graecia" University of Catanzaro

Correspondence to: Maura Francolini at [m.francolini@in.cnr.it](mailto:m.francolini@in.cnr.it)

URL: <https://www.jove.com/video/50985>

DOI: [doi:10.3791/50985](https://doi.org/10.3791/50985)

## Materials

Name	Company	Catalog Number	Comments
Dulbecco's Modified Eagle Medium (DMEM)	Invitrogen	41966029	
Dulbecco's Modified Eagle Medium (DMEM) w/o phenol red	Invitrogen	31053028	
Fetal Bovine Serum (FBS)	Invitrogen	10270106	
Pen/Strep	Invitrogen	15140-122	
L-Glutamine 200 mM solution	Invitrogen	25030-024	
jetPEI	Polyplus Transfection	PP10110	
OxyFluor	Oxyrase Inc.	OF-0005	
Glutaraldehyde Grade I	Sigma Aldrich	G5882	
Sodium Cacodylate Trihydrate	Sigma Aldrich	C0250	
Osmium Tetroxide 4% solution	Electron Microscopy Science	19150	
Uranyl Acetate Dihydrate	Sigma Aldrich	73943	slightly radioactive
Propylene Oxide	Sigma-Aldrich	82320	
EPON embedding medium kit	Sigma-Aldrich	45359-1EA-F	
Lead Citrate	Electron Microscopy Science	17800	
Bench top centrifuge	Eppendorf	5415 D	
Spectral Confocal Microscope	Leica Microsystems	TCS SP5	
CO <sub>2</sub> Microscope Cage Incubation System	Okolab		
Ultramicrotome	Leica Microsystems	UC6	
Diamond knife	Diatome	Ultra 45 °	
Transmission Electron Microscope	FEI	Tecnai G2	
GraphPad Prism Software	GraphPad Software, Inc		
Steel culture cell chamber for 24 mm coverslip	Bioscience Tools	CSC-25	
Electron Microscopy grids	Electron Microscopy Science	G300Cu	