

Materials List for:

Microscopy Based Methods for the Assessment of Epithelial Cell Migration During *In Vitro* Wound Healing

Sergio Liarte^{*1}, Ángel Bernabé-García^{*1}, David Armero-Barranco², Francisco José Nicolás¹

¹Laboratorio de Oncología Molecular y TGF-β, IMIB-Arixaca

²Departamento de Enfermería, Facultad Enfermería, Universidad de Murcia

*These authors contributed equally

Correspondence to: Francisco José Nicolás at franciscoj.nicolas2@carm.es

URL: <https://www.jove.com/video/56799>

DOI: [doi:10.3791/56799](https://doi.org/10.3791/56799)

Materials

Name	Company	Catalog Number	Comments
Dulbecco's Modified Eagle Medium (DMEM)	Biowest, Nuaille, France	L0102-500	Optional 10 % FBS supplement
Eagles's Minimum Essential Medium (EMEM)	Lonza	BE12 -662F	Optional 10 % FBS supplement
L-Glutamine	Lonza	BE17-605E	Use at 2 mM
Fetal Bovine Serum (FBS)	Thermo Fisher Scientific, Waltham, MA USA	DE17603A	
Trypsin-EDTA	Sigma-Aldrich, St Louis, MO, USA	T4049	Dilute as appropriate
Poly-L-Lysine	Sigma-Aldrich, St Louis, MO, USA	P9155	
Dulbecco's Phosphate Buffered Saline (DPBS) (10x)	Gibco by Life Technologies	14200-067	Dilute to 1x
24-well culture plates	BD FALCON//SARSTED	734-0020	
6-well culture plates	SARSTEDT	83-3920	
Epidermal Growth Factor (EGF)	Sigma-Aldrich, St Louis, MO, USA	E9644	Used 10 ng/mL
Round cover glass	MENZEL-GLÄSER	MENZCB00120RA020	SHORT DEPTH OF FIELD
Reinforced razor blade no. 743	Martor (through VWR)	MARO743.50	
200 µl sterile aerosol pipet tips	VWR	732-0541	
20 µl sterile aerosol pipet tips	VWR	732-0528	
Digital camera coupled phase contrast microscope	Motic Spain	Moticam camera 2300 3.0 M Pixel USB 2.0; Motic Optic AE31	
Confocal microscope	ZEISS Microimaging, Germany	LSM 510 META	
10 cm Culture dish	BD FALCON	353003	
Rabbit polyclonal anti c-Jun antibody	Santa Cruz Biotechnology	sc-1694	Used 1:100
Anti-rabbit IgG (polyclonal goat) AF 488	Invitrogen	A11008	Used 1:400
Hoechst-33258	Sigma-Aldrich, St Louis, MO, USA	14530	Used 1:1000
Alexa Fluor 594 phalloidin (in methanol) (red)	Invitrogen	A12381	Used 1:100
Bovine Serum Albumin	Santa Cruz Biotechnology	SC-2323	
Triton X-100	Sigma-Aldrich, St Louis, MO, USA	T9284	
Skim milk	BD DIFCO	232100	
ImageJ	National Institutes of Health, USA	Release 1.50i	
Zen LSM 510 image processing software	ZEISS Microimaging, Germany	Release 5.0 SP 1.1	