

Live Imaging of Microtubule Dynamics in Glioblastoma Cells Invading the Zebrafish Brain

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jove.com/video/64093

Materials

Name	Company	Catalog Number	Comments
Glioblastoma cell culture			
Foetal calf serum	Eurobio	CVFSVF00-01	Reagent
MEM NEAA	Gibco	11140-050	Reagent
Modified Eagle's medium	Eurobio	CM1MEM18-01	Reagent
Penicillin–streptomycin	Gibco	15140-122	Reagent
U-87 MG	ECACC	89081402-1VL	Cells
Lenivirus production			
BD FACSAria III	BD bioscience		Instrument
BD FACSDiva software v8.0	BD bioscience		Software
HEK-293T	Merck	12022001	Cells
pMD2.G	Addgene	Plasmid #12259	Reagent
psPAX2	Addgene	Plasmid #12260	Reagent
Ultracentrifuge Optima XPN-80	Beckman Coulter		Instrument
Cell passaging and staining			
dPBS	Gibco	14190-094	Chemical
Hoechst 34580	Sigma-Aldrich	63493	Chemical
Trypsin-EDTA (0,05%)	Gibco	25300-054	Reagent
Zebrafish husbandry			
Fluorescence stereomicroscope LEICA M165FC	LEICA	https://www.leica-microsystems.com/fr/produits/stereomicroscopes-et-microscopes/informations-detaillees/leica-m165-fc/	Instrument
Methylene Blue hydrate	Sigma-Aldrich	M4159	Chemical
N-Phenylthiourea (PTU)	Sigma-Aldrich	P7629-25G	Chemical
Transfer Pipettes fine tips	Samco Scientific	232	Equipment
Transfer Pipettes Large Bulb3mL	Samco Scientific	225	Equipment
Tricaine (Ethyl 3-aminobenzoate methanesulfonate)	Sigma-Aldrich	Cat#: A5040	Chemical
Volvic Source Water	DUTSCHER DOMINIQUE SAS	999556	Reagent

Xenotransplantation			
24-well plate	TPP	92024	Equipment
Borosilicate glass capillaries (1.0 ODx0.58IDx150L mm)	Harvard Apparatus	(#30-0017 GC100-15	Equipment
CellTram oil vario microinjector	Eppendorf	5176000.025	Instrument
Microloading pipet tips (Microloader) 20µL	Eppendorf	5242956003	Equipment
Micromanipulator	NARISHIGE	https://products.narishige-group.com/group1/injection/english.html	Equipment
Mineral Oil	Sigma	M8410-100ml	Equipment
Stereomicroscope	Olympus	KL 2500 LCD	Instrument
Universal capillary holder	Eppendorf	5176190002	Equipment
Vertical Pipette puller	KOPF (Roucaire)	Model 720	Instrument
Intravital Imaging			
3.5cm glass-bottom videomaging dish	MatTek Life Sciences, MA, USA	P35G-1,5-14-C	Equipment
Acquisition software: NIS-Elements-AR version 5.21	Nikon		Software
Heat-Block	Techne	DRI-BLOCK DB-2D	Equipment
Microscope head Nikon Ti2E	Nikon		Instrument
sCMOS camera Prime 95B	Photometrics		Instrument
sCMOS camera Orca Flash 4	Hamamatsu		Instrument
Ultrapure Low melting point agarose	Invitrogen	16520-050	Chemical
Yokagawa CSU-W1 spinning disk unit	Hamamatsu		Instrument
Drug Treatment			
DMSO	Sigma-Aldrich	D2650-100ML	Chemical
Nocodazole	Sigma-Aldrich	M1404-2MG	Chemical
Image Analysis			
Imaris 9.5.1 software	Oxford Instruments		Software
ImarisFileConverter 9.5.1	Oxford Instruments		Software