

# Co-culture of Glutamatergic Neurons and Pediatric High-Grade Glioma Cells Into Microfluidic Devices to Assess Electrical Interactions

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## Citation

Fuchs, Q., Batut, A., Gleyzes, M., Rontard, J., Miny, L., Libralato, M., Vieira, J., Debis, D., Larramendy, F., Honegger, T., Messe, M., Pierrevé, M., Lhermitte, B., Dontenwill, M., Entz-Werlé, N. Co-culture of Glutamatergic Neurons and Pediatric High-Grade Glioma Cells Into Microfluidic Devices to Assess Electrical Interactions. *J. Vis. Exp.* (177), e62748, doi:10.3791/62748 (2021).

## Date Published

November 17, 2021

## DOI

10.3791/62748

## URL

jove.com/video/62748

## Materials

Name	Company	Catalog Number	Comments
256MEA100/30iR-ITO-w/o	MCS	256MEA100/30iR-ITO-w/o	
40 µm probe for Scepter counter	Dutscher	53750	
60 µm probe for Scepter counter	Dutscher	51999	
Accutase	Sigma	A6964	
Ala -Gln (GlutaMAX)	Sigma	G8541	
Axel Observer 7 Microscope	Zeiss	431007-9904-000	
Cell culture flask with cap with filter membrane 70 mL Falcon®	Dutscher	353109	
Class II Biological Safety Cabinet	Thermo Scientific	HERASafe type KS12	
Colibri 7 LED	Zeiss	4230529710-000	
Cortical Glutamatergic Neurons	BrainXell	BX-0300	
DMEM/F-12 (1:1) GlutaMAX	Gibco	31331-028	
DMEM/F12 Medium	Sigma	D8437	
DPBS 1X	Dutscher	L0615-500	
EasYFlask™ cell culture flasks 75cm <sup>3</sup>	Nunc	156499	
Foetal Bovine Serum (FBS)	Dutscher	500105	
GDNF	Peprtech	450-10	
Geltrex	Life Technologies	A1413201	
Human BDNF	Peprtech	450-02	
Incubator	Memmert	IC0150med	
MCS InterFace Boarder	MCS	181205-MEA2100-11240	
MEA2100	MCS	181205-MEA2100-11240	

Micropipette P10	Sartorius	LH-729020	
Micropipette P100	Sartorius	LH-729050	
Micropipette P1000	Sartorius	LH-729070	
Micropipette P200	Sartorius	LH-729060	
Microtube Eppendorf 1,5 ml Safe-Lock	Dutscher	33290	
MultiChannel Experimenter	MCS	-	
N2 Supplement-A	StemCell	7152	
Neurobasal Medium	Life Technologies	21103049	
Neurocult SM1 neuronal supplement	StemCell	5711	
Non filter tip 0.1 - 10 µl ClearLine® sterile in removable-lid rack	Dutscher	030570ACL	
Non filter tip 1 - 200 µl ClearLine® sterile in removable-lid rack	Dutscher	032260CL	
Non filter tip 50 - 1250 µl ClearLine® sterile in removable-lid rack	Dutscher	134760CL	
Non-essential amino acids (NEAA) without L-glutamine	Dutscher	X0557-100	
Pipeteur Pipet-Aid XP Gravity	Drummond	4000202/4038202	
Pipette for cell culture 10 mL Falcon®	Dutscher	357551	
Pipette for cell culture 5 mL Falcon®	Dutscher	357543	
Plaque chauffante (CultureTemp)	Belart	370151000	
Poly-D-Lysine	Sigma	P6407	
Primovert microscope	Zeiss	415510-1100-000	
Scepter (Handheld Automated Cell Counter)	Millipore	PHCC00000	
TGF-β1	Peprtech	100-21C	
Tube with conical bottom 15 mL (bulk) Falcon®	Dutscher	352096	
Tube with conical bottom 50 mL (bulk) Falcon®	Dutscher	352070	