

Materials List for:

# Single-cell Microinjection for Cell Communication Analysis

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URL: <https://www.jove.com/video/50836>

DOI: [doi:10.3791/50836](https://doi.org/10.3791/50836)

## Materials

Name	Company	Catalog Number	Comments
Lucifer yellow	Sigma	L0259	
Lithium Chloride	Sigma	L4408	
PBS tablets	Sigma	P4417	
RPMI	Sigma	R4130	
Bovine fetal serum	Cultilab		
Trypsin	Sigma	T4799	
vibration-insulated table	Newport	VH3036W-OPT	A vibration-insulated table is needed to protect the experiments from vibration and avoid cell damage
Micromanipulator	Narishige	MMO-203	This equipment allows precision adjustments of the micropipette, which is needed for cell micro injection.
Current Generator	Digitimer	DS2	To produce the dye flow through the micropipette, a current below one nano ampere was given using a current generator with an electrode inside the micropipette or an amplifier which has a capacitance compensation circuit (old electrometer) or current injection functions of new patch clamp amplifiers, and the ground wire submersed in the plate dish. Alternatively, the dye can be injected by a pneumatic microinjector, following the factory recommendations.