

Recording Gap Junction Current from *Xenopus* Oocytes

 Yuan Shui¹, Zhao-Wen Wang¹
¹Department of Neuroscience, University of Connecticut School of Medicine

Corresponding Author

 Zhao-Wen Wang
 zwwang@uchc.edu

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Materials

Name	Company	Catalog Number	Comments
Agar Bridge Magnetic Holder	ALA Scientific Instruments	MPSALT-H	More stable than the Narishige tube clammer due to its larger magnetic base but it requires modification to accommodate a 2-mm female socket.
Auto Nanoliter Injector	Drummond Scientific Company, Broomall, PA, USA	Nanoject II	Automated nanoliter injector
Collagenase, Type II	Gibco-USA, Langley, OK, USA	17101-015	
Diamond Scriber	Electron Microscopy Sciences, Hatfield, PA, USA	62108-ST	
Differential Voltage Probe	Warner Instruments, Hamden, CT, USA	7255DI	
Analog-to-Digital Signal Converter	Molecular Devices, San Jose, CA, USA	Digidata 1440A	
Dumont #5 Tweezers	World Precision Instruments, Sarasota, FL, USA	500341	
Glass Capillaries	Drummond Scientific Company, Broomall, PA, USA	3-000-203-G/X	
Hot Wire Cutter	Amazon.com	Proxxon 37080	An alternative is Hercules 8500 DHWT, which has a foot control pedal.
Hyaluronidase, Type I-S	MilliporeSigma, Burlington, MA, USA	H3506	
Magnetic Holder Base	Kanetec USA Corp., Bensenville, IL, USA	MB-L-45	
Microelectrode Beveler	Sutter Instrument, Novato, CA, USA	BV-10	
Microelectrode Holder	World Precision Instruments, Sarasota, FL, USA	MEH1S15	
Micropipette Puller	Sutter Instrument, Novato, CA, USA	P-97	
mMESSAGE mMACHINETM T3	Invitrogen-FisherScientific	AM1348	
Nunc MicroWell MiniTray	Nalge Nunc International, Rochester, NY, USA	438733	Microwell Minitray
Nylon mesh	Component Supply Company, Sparta, TN, USA	U-CMN-1000	
Oocyte Clamp Amplifier	Warner Instruments, Hamden, CT, USA	OC-725C	
OriginPro	OriginLab Corporation, Northampton, MA, USA	2020b	

pClamp	Molecular Devices, , San Jose,CA, USA	Version 10	
Reference Electrode	World Precision Instruments, Sarasota, FL, USA	DRIREF-2SH	Specifications: https://www.wpiinc.com/blog/post/compare-dri-ref-reference-electrodes
RNaseOUT (ribonuclease inhibitor)	Invitrogen-FisherScientific	10777-019	
Silk Suture 5-0	Covidien, North Haven, CT, USA	VS890	
Spectrophotometer NanoDrop Lite	Thermo Scientific	ND-LITE-PR	
Thin Wall Glass Capillaries	World Precision Instruments,Sarasota, FL, USA	TW150F-4	
Tube Clamper	Narishige International USA, Amityville, NY, USA	CAT-1	Ready to use but its position is prone to shift due to the small magnetic base.
<i>Xenopus laevis</i>	Xenopus Express, Brooksville, FL, USA	IMP-XL-FM	