

Materials List for:

# ***Xenopus* Oocytes: Optimized Methods for Microinjection, Removal of Follicular Cell Layers, and Fast Solution Changes in Electrophysiological Experiments**

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URL: <https://www.jove.com/video/55034>

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## Materials

| Name                                        | Company                          | Catalog Number | Comments                                                                   |
|---------------------------------------------|----------------------------------|----------------|----------------------------------------------------------------------------|
| NaCl                                        | Sigma                            | 71380          |                                                                            |
| KCl                                         | Sigma                            | P-9541         |                                                                            |
| NaHCO <sub>3</sub>                          | Sigma                            | S6014          |                                                                            |
| MgSO <sub>4</sub>                           | Sigma                            | M-1880         |                                                                            |
| CaCl <sub>2</sub>                           | Sigma                            | 223560         |                                                                            |
| Ca(NO <sub>3</sub> ) <sub>2</sub>           | Sigma                            | C1396          |                                                                            |
| HEPES                                       | Sigma                            | H3375          |                                                                            |
| Penicilin/streptomycin                      | Gibco                            | 15140-148      | 100 µg penicillin/mL and 100 µg streptomycin/mL                            |
| Platinum wire loop                          | home-made                        |                |                                                                            |
| Micropipette puller                         | Zeitz-Instruments GmbH           | DMZ            |                                                                            |
| Hamilton syringe                            | Hamilton                         | 80300          | 10 µL, Type 701N                                                           |
| Thick walled polytetrafluoroethylene tubing | Labmarket GmbH                   |                | 1.0 mm OD                                                                  |
| Paraffin oil                                | Sigma                            | 18512          |                                                                            |
| Nylon net, G: 0.8 mm                        | ZBF Züricher Beuteltuchfabrik AG |                |                                                                            |
| Borosilicate glass tube                     | Corning                          | 99445-12       | PYREX                                                                      |
| Collagenase NB Standard Grade               | SERVA                            | 17454          |                                                                            |
| Trypsin inhibitor type I-S                  | Sigma                            | T-9003         |                                                                            |
| EGTA                                        | Sigma                            | E3389          |                                                                            |
| Glass capillary                             | Jencons (Scientific ) LTD.       | H15/10         | 1.35 ID mm (for perfusion), alternative company: Harvard Apparatus Limited |
| Borosilicate glass capillary                | Harvard Apparatus Limited        | 30-0019        | 1.0 OD x 0.58 ID x 100 Length mm (for microinjection)                      |
| Borosilicate glass capillary                | Harvard Apparatus Limited        | 30-0044        | 1.2 OD x 0.69 ID x 100 Length mm (for two-electrode voltage clamp)         |
| γ-Aminobutyric acid (GABA)                  | Sigma                            | A2129          |                                                                            |
| 3α,21-Dihydroxy-5α-pregnan-20-one (THDOC)   | Sigma                            | P2016          |                                                                            |
| grill motor                                 | Faulhaber                        |                | DC micromotor Type 2230 with gear Type 22/2                                |
| micrometer screw                            | Kiener-Wittlin                   | 10400          | TESA, AR 02.11201                                                          |
| Sterile plastic transfer pipettes           | Saint-Amand Mfg.                 | 222-20S        |                                                                            |