

Materials List for:

# Recording Temperature-induced Neuronal Activity through Monitoring Calcium Changes in the Olfactory Bulb of *Xenopus laevis*

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## Materials

| Name                                      | Company                  | Catalog Number                         | Comments   |
|---|--------------------------|--|--|
| <b>Reagents</b>                           |                          |  |  |
| Sodium chloride                           | Merck Millipore          | 1064040500                             |  |
| Potassium chloride                        | Merck Millipore          | 1049360250                             |  |
| Calcium chloride dihydrate                | Merck Millipore          | 1023820250                             |  |
| Magnesium chloride hexahydrate            | Merck Millipore          | 1058330250                             |  |
| D(+)-Glucose                              | Merck Millipore          | 1083371000                             |  |
| Sodium pyruvate                           | Sigma-Aldrich            | P2256                                  |  |
| HEPES                                     | Merck Millipore          | 1101100250                             |  |
| Calcium Green 10 kDa Dextran              | Thermo Fisher Scientific | C-3713                                 |  |
| Dextran, Alexa Fluor 647                  | Thermo Fisher Scientific | D-22914                                |  |
| Dextran, Alexa Fluor 546                  | Thermo Fisher Scientific | D-22911                                |  |
| Fluo-8 AM                                 | TEFlabs                  | 203                                    |  |
| MK571                                     | Alexis Biochemicals      | 340-021-M005                           |  |
| MS-222                                    | Sigma-Aldrich            | E10521                                 |  |
| Pluronic acid F-127                       | Sigma-Aldrich            | P2443                                  | powder   |
| L-Histidine monohydrochloride monohydrate | Sigma-Aldrich            | 53370                                  |  |
| DMSO                                      | Merck Millipore          | 1029522500                             |  |
| <b>Equipment</b>                          |                          |  |  |
| Electronic pipette                        | BrandTech                | HandyStep Electronic Repeating Pipette |  |
| NiCr-Ni thermocouple                      | Greisinger Elektronik    | GTF 300                                |  |
| Micropipette puller                       | Narishige                | Model PC-10                            | two-step puller  |
| Funnel applicator                         | (Custom-made)            |  |  |
| Line-illumination microscope              | (Custom-made)            |  | otherwise, a commercially available spinning disk microscope |
| Objective W Plan-Apochromat 63X/1.0       | Zeiss                    | 441470-9900-000                        |  |
| Objective W Plan-Apochromat 40X/1.0 DIC   | Zeiss                    | 441452-9900-000                        |  |
| <b>Software</b>                           |                          |  |  |
| MATLAB                                    | The MathWorks            |  | from R2010b upwards  |