

**Materials List for:**

# Selective Viral Transduction of Adult-born Olfactory Neurons for Chronic *in vivo* Optogenetic Stimulation

Gabriel Lepousez<sup>1</sup>, Mariana Alonso<sup>1</sup>, Sebastian Wagner<sup>1</sup>, Benjamin W. Gallarda<sup>1</sup>, Pierre-Marie Lledo<sup>1</sup>

<sup>1</sup>Laboratory for Perception and Memory, Institut Pasteur and Centre National de la Recherche Scientifique (CNRS)

Correspondence to: Benjamin W. Gallarda at [gallarda@pasteur.fr](mailto:gallarda@pasteur.fr), Pierre-Marie Lledo at [pmllledo@pasteur.fr](mailto:pmllledo@pasteur.fr)

URL: <https://www.jove.com/video/3380>

DOI: [doi:10.3791/3380](https://doi.org/10.3791/3380)

## Materials

| Name                                        | Company               | Catalog Number                                                     | Comments |
|---------------------------------------------|-----------------------|--------------------------------------------------------------------|----------|
| Ketamine                                    | Merial                | Imalgène 1000                                                      |          |
| Xylazine                                    | Bayer AG              | Rompum 0.2%                                                        |          |
| Pipette Puller                              | Sutter Instrument Co. | P-97                                                               |          |
| Glass Capillaries (3.5")                    | Drummond Scientific   | 3-000-203-G/X                                                      |          |
| Nanoject II Microinjector                   | Drummond Scientific   | 3-000-204                                                          |          |
| High speed surgical drill                   | Fine Science Tools    | 18000-17                                                           |          |
| Micro Drill Steel Burrs 0.7mm tip diameter  | Fine Science Tools    | 19008-07                                                           |          |
| LED CMS blue 4.6 W                          | OSRAM                 | LBW5SN                                                             |          |
| Female electrical connector (2.54 mm)       | Fisher Scientific     | BL5.36Z                                                            |          |
| Current controller for LED (max: 1A)        | A1W Elektronik        | HKO-KL50-1000                                                      |          |
| Pulse generator                             | AMPI                  | Master-8                                                           |          |
| Optical power meter                         | Thorlabs Inc.         | PM100                                                              |          |
| Cyanoacrylate adhesive                      | Loctite               | 454                                                                |          |
| Polycarboxylate cement (first layer cement) | Septodont             | Selfast (#0068Q)                                                   |          |
| Methacrylate cement (second layer cement)   | GC International      | Unifast Trad – Liquid (#339292)<br>Unifast Trad – Powder (#339114) |          |
| Carprofen                                   | Pfizer Pharma GmbH    | Rimadyl                                                            |          |