

Materials List for

# The Miniature Pig: A Large Animal Model for Cochlear Implant Research

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## Materials

| Name                                        | Company | Catalog Number | Comments                      |
|---------------------------------------------|---------|----------------|-------------------------------|
| 0.5 mm diamond burr                         |         |                |                               |
| 1 mm diamond burr                           |         |                |                               |
| 5 mm diamond burr                           |         |                |                               |
| 2-0 suture silk                             |         |                |                               |
| 3D Slicer image computing platform          |         |                | 3D reconstruction of CT image |
| Alcohol                                     |         |                |                               |
| Bipolar cautery                             |         |                |                               |
| Bipolar electrocoagulation                  |         |                | Stop bleeding                 |
| CI designed for human use (CONCERTO FLEX28) | MED-EL  | Concerto F28   |                               |
| Dressing forceps                            |         |                |                               |
| ECG monitor                                 |         |                |                               |
| Iodine tincture                             |         |                |                               |
| Isoflurane                                  |         |                | 3.6 mL/h                      |
| Laryngoscope                                |         |                |                               |
| MAESTRO Software                            | MED-EL  |                | Measure ECAP responses        |
| Micro forceps                               |         |                |                               |
| Micro spatula                               |         |                |                               |
| Mosquito forceps                            |         |                |                               |
| Needle holder                               |         |                |                               |
| Needle probe                                |         |                |                               |
| Negative pressure suction device            |         |                |                               |
| Otological surgical instruments             |         |                |                               |
| Respiratory Anesthesia Machine              |         |                |                               |
| Scalpel with blade No. 15                   |         |                |                               |
| Scissors                                    |         |                |                               |

|                                                |        |  |                        |
|------------------------------------------------|--------|--|------------------------|
| Shaver                                         |        |  |                        |
| Stimulation device (MAX Programming Interface) | MED-EL |  | Measure ECAP responses |
| Surgery microscope                             | Leica  |  |                        |
| Surgical drill                                 |        |  |                        |
| Surgical Power Device                          |        |  |                        |
| Tiletamine and zolazepan                       |        |  | 10-15 mg/kg            |
| Tissue forceps                                 |        |  |                        |
| Trachea cannula                                |        |  |                        |