

Materials List for:

# Functional Magnetic Resonance Imaging (fMRI) with Auditory Stimulation in Songbirds

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URL: <https://www.jove.com/video/4369>

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## Materials

| Name                                           | Company                               | Catalog Number | Comments                                                                              |
|------------------------------------------------|---------------------------------------|----------------|---------------------------------------------------------------------------------------|
| Isoflurane anaesthetic                         | Isoflo                                | 05260-05       |                                                                                       |
| PC-Sam hardware/software                       | SA-Instruments                        |                | <a href="http://www.i4sa.com">http://www.i4sa.com</a>                                 |
| Monitoring and gating system                   |                                       | 1025           |                                                                                       |
| MR-compatible small rodent heater system       |                                       |                | Model 1025 compatible                                                                 |
| Rectal temperature probe                       |                                       | RTP-102B       | 7", 0.044"                                                                            |
| 7T MR scanner                                  | Bruker Biospin                        | PHS 70/16      |                                                                                       |
| Paravision software                            |                                       | 5.1            |                                                                                       |
| Gradient Insert                                |                                       | BGA9S          | 400 mT/m, 300A, 500V                                                                  |
| Gradient Amplifiers                            | Copley Co., USA                       | C256           |                                                                                       |
| Transmit resonators                            |                                       |                | Inner diameter: 72 mm, transmit only, active decoupled                                |
| Receiver antenna - 20 mm quadrature Mouse Head |                                       |                | Receive only, active decoupled                                                        |
| WaveLab software                               | Steinberg                             |                |                                                                                       |
| Praat software                                 | Paul Boersma, University of Amsterdam |                | <a href="http://www.praat.org">http://www.praat.org</a>                               |
| Non-magnetic dynamic speakers                  | Visation, Germany                     | HK 150         |                                                                                       |
| Fiber optic microphone                         | Optoacoustics,                        | Optimic 1160   |                                                                                       |
| Sound amplifier                                | Phonic corporation                    | MM 1002a       |                                                                                       |
| Presentation software                          | Neurobehavioral Systems Inc.          |                |                                                                                       |
| MRlcro                                         | Chris Rorden                          |                | <a href="http://www.cabiatl.com/micro/micro/">http://www.cabiatl.com/micro/micro/</a> |
| Statistical Parametric Mapping (SPM)           | Welcome Trust Centre for Neuroimaging | 8              | <a href="http://www.fil.ion.ucl.ac.uk/spm/">http://www.fil.ion.ucl.ac.uk/spm/</a>     |