

Materials List for:

# Utilizing 3D Printing Technology to Merge MRI with Histology: A Protocol for Brain Sectioning

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URL: <https://www.jove.com/video/54780>

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## Materials

| Name                                                                     | Company                      | Catalog Number                                                                                                | Comments |
|--------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------|----------|
| 7T/30cm USR AVIII Bruker MRI                                             | Bruker Biospin               |                                                                                                               |          |
| 38 mm Bruker Biospin volume coil                                         | Bruker Biospin               |                                                                                                               |          |
| Fomblin                                                                  | Solvay Solexis               |                                                                                                               |          |
| 50 ml Falcon Centrifuge Tubes, Polypropylene, Sterile                    | Corning                      | 21008-951                                                                                                     |          |
| Fisherbrand Gauze Sponges                                                | Fisher Scientific            | 13-761-52                                                                                                     |          |
| Parafilm M All-Purpose Laboratory Film                                   | Bemis                        |                                                                                                               |          |
| Leica RM2235 rotary microtome                                            | Leica                        |                                                                                                               |          |
| Leica Disposable Blades, low profile (819)                               | Leica                        |                                                                                                               |          |
| Cresyl Violet Acetate, 0.1% Aqueous                                      | Electron Microscopy Sciences | 26089-01                                                                                                      |          |
| Luxol Fast Blue, 0.1% in 95% Alcohol                                     | Electron Microscopy Sciences | 26056-15                                                                                                      |          |
| ETOH                                                                     |                              |                                                                                                               |          |
| Ultimaker 2 Extended                                                     | Ultimaker                    |                                                                                                               |          |
| .75 kg Official Ultimaker Branded PLA Filament, 2.85 mm, Silver Metallic | Ultimaker                    |                                                                                                               |          |
| Axio Observer.Z1                                                         | Zeiss                        |                                                                                                               |          |
| Zen 2 (Blue Edition)                                                     | Zeiss                        |                                                                                                               |          |
| Netfabb Professional 5.0.1                                               | Netfabb                      | <a href="http://www.netfabb.com/professional.php">http://www.netfabb.com/professional.php</a>                 |          |
| Meshmixer 10.9.332                                                       | Autodesk                     | <a href="http://www.meshmixer.com/download.html">http://www.meshmixer.com/download.html</a>                   |          |
| Mipav 7.2                                                                | NIH CIT                      | <a href="http://mipav.cit.nih.edu">http://mipav.cit.nih.edu</a>                                               |          |
| Cura                                                                     | Ultimaker                    | <a href="https://ultimaker.com/en/products/cura-software">https://ultimaker.com/en/products/cura-software</a> |          |