

Materials List for:

# Rapid Acquisition of 3D Images Using High-resolution Episcopic Microscopy

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## Materials

| Name   | Company                                 | Catalog Number | Comments   |
|--|---|----------------|--|
| Mice   | The Jackson Laboratory                  | C57BL6         |  |
| Ethyl Alcohol  | Pharmco-Aaper                           | 111000200      | 200 Proof, Absolute, ACS/USP/<br>Kosher Grade    |
| Formalin   | Sigma                                   | HT501128-4L    |  |
| Urea   | Sigma                                   | U5128          | Clearing Solution                                |
| Glycerol   | Fisher scientific                       | G33-4          | Clearing Solution                                |
| Sodium Dodecyl Sulfate                               | Invitrogen                              | 15525-017      | Clearing Solution                                |
| Eosin Y Disodium Salt                                | Fisher scientific                       | BP241925       | Infiltration Solution                            |
| Acridine Orange hemi (zinc chloride) salt            | Sigma                                   | A6014          | Infiltration Solution                            |
| Whatman paper  | GE                                      | 3030-153       |  |
| JB-4 Embedding Kit - Solution A                      | Polysciences, Inc.                      | 0226A-800      | Infiltration Solution                            |
| JB-4 Embedding Kit - Solution B                      | Polysciences, Inc.                      | 0226B-30       | Embedding Solution                               |
| JB-4 Embedding Kit - Catalyst                        | Polysciences, Inc.                      | 02618-12       | Infiltration Solution                            |
| Embedding Molds                                      | Polysciences, Inc.                      | 23185-1        | 16 x 8 mm  |
| Peel-A-Way Sharp Embedding Molds                     | Polysciences, Inc.                      | 18986-1        | 22 mm x 22 mm square, truncated to 12 mm x 12 mm |
| JB-4 Plastic Block Holders                           | Polysciences, Inc.                      | 15899          |  |
| Disposable Graduated Transfer Pipes                  | VWR                                     | 414004-014     |  |
| Petri Dish   | VWR                                     | 25384-088      | Embryo dissection                                |
| Forceps Inox Tip                                     | ROBOZ                                   | RS-5015        | Embryo dissection                                |
| Graefe Tissue Forcep                                 | ROBOZ                                   | RS-5153        | Embryo dissection                                |
| Delicate Operating Scissor                           | ROBOZ                                   | RS-6700        | Embryo dissection                                |
| 14 ml Polypropylene Round-Bottom Tubes               | Falcon                                  | 352059         |  |
| 50 ml Polypropylene Conical Tubes                    | Falcon                                  | 352098         |  |
| Ice Bucket   | Magic Touch Iceware International Corp. | R19-343        |  |
| 100 ml (3.4 oz.) Antistatic Polystyrene Weigh Boats  | VWR                                     | 89106-766      |  |
| 330 ml (11.2 oz.) Antistatic Polystyrene Weigh Boats | VWR                                     | 89106-770      |  |
| Sodium Chloride                                      | MP Biomedicals                          | 102892         | PBS Solution                                     |

|                                       |  |               |              |
|---------------------------------------|--|---------------|--------------|
| Potassium Chloride                    | Sigma  | P0662         | PBS Solution |
| Potassium phosphate monobasic         | Sigma  | P5405         | PBS Solution |
| Sodium phosphate dibasic heptahydrate | Sigma-Aldrich  | S9390         | PBS Solution |
| Digital Camera                        | Hamamatsu Photonics  | C11440-10C    |              |
| Microtome                             | Leica  | RM2265        |              |
| Illuminator                           | Carl Zeiss   | HXP 200C      |              |
| Fluorescence Stereo Zoom Microscope   | Carl Zeiss   | Axio Zoom.V16 |              |
| Stereo Microscope                     | Olympus  | SZX16         |              |
| Fiber Optic Light Source              | Leica  | KL 1500 LCD   |              |
| Disposable Microtome Blade            | VWR  | 95057-832     |              |
| Single Edge Dispenser                 | Personna   | 62-0330-0000  |              |
| ZEN                                   | Carl Zeiss   | pro 2012      |              |
| Photoshop                             | Adobe  | CS6 v13.0     |              |
| Amira 3D Software                     | Visage Imaging   | 5.4           |              |
| Computer                              | Dell T7600, 2x900GB SAS hard drive and 64 GB DDR3 RDIMM memory |               |              |
| Rocking Platform Shakers              | VWR  | 40000-304     |              |
| Standard Hot Plate Stirrer            | VWR  | 12365-382     |              |
| Analytical Balance                    | Mettler Toledo   | AB54-S        |              |