

Materials List for

Stabilized Window for Intravital Imaging of the Murine Pancreas

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Materials

| Name | Company | Catalog Number | Comments |
|--|----------------------------------|-----------------|--|
| 1% (w/v) solution of enzyme-active detergent | Alconox Inc | NA | Concentrated, anionic detergent with protease enzymes for manual and ultrasonic cleaning |
| 5% (w/v) solution of sodium hydroxide | Sigma-Aldrich | S8045 | Passivation reagent |
| 5 mm cover glass | Electron Microscopy Sciences | 72296-05 | Round Glass Coverslips |
| 7% (w/v) solution of citric acid | Sigma-Aldrich | 251275 | Passivation reagent |
| 28G 1 mL BD Insulin Syringe | BD | 329410 | Syringe for cell injection |
| Baytril 100 (enrofloxacin) | Bayer (Santa Cruz Biotechnology) | sc-362890Rx | Antibiotic |
| Bench Mount Heat Lamp | McMaster-Carr | 3349K51 | Heat lamp |
| Buprenorphine 0.3 mg/mL | Covetrus North America | 059122 | Buprenorphine Analgesia |
| Castroviejo Curved Scissors | World Precision Instruments | WP2220 | Scissor for cutting tissue |
| C57BL/6J Mouse | Jackson Laboratory | 000664 | C57BL/6J Mouse |
| Chlorhexidine solution | Durvet | 7-45801-10258-3 | Chlorhexidine Disinfectant Solution |
| Compressed air canister | Falcon | DPSJB-12 | Compressed air for drying tissue |
| Cyano acrylate - Gel Superglue | Staples | 234790-6 | Skin Glue |
| Cyano acrylate - Liquid Superglue | Staples | LOC1647358 | Coverslip Glue |
| DPBS 1x | Corning | 21-031-CV | DPBS for cerulein/cell injections |
| Gemini Cautery Kit | Harvard Apparatus | 726067 | Cautery Pen |
| Germinator 500 | CellPoint Scientific | GER 5287-120V | Bead Sterilizer |

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|--|-----------------------------|------------------|---|
| Graefe Micro Dissecting Forceps; Serrated; Slight Curve; 0.8 mm Tip Width; 4" Length | Roboz Surgical | RS-5135 | Graefe Micro Dissecting Forceps |
| Imaging microscope | NA | NA | See Entenberg et al. 2011 [27] |
| Imaging software | NA | NA | See Entenberg et al. 2011 [27] |
| Isoesthesia (isoflurane) | Henry Schein Animal Health | 50033 | Isoflurane Anesthesia |
| Kim Wipes | Fisher Scientific | 06-666-A | Kim Wipes |
| Laboratory tape | Fisher Scientific | 159015R | Laboratory Tape |
| Mouse Dissecting Kit | World Precision Instruments | MOUSEKIT | Surgical Instruments |
| Mouse Paw Pulse Oximeter Sensor | Kent Scientific Corpo | MSTAT Sensor-MSE | Pulse Oximeter |
| Mouse Surgisuite | Kent Scientific | SURGI-M04 | Heated platform |
| Nair Hair Removal Lotion | Amazon | B001RVMR7K | Depilatory Lotion |
| Oxygen | TechAir | OX TM | Oxygen |
| PERMA-HAND Black Braided Silk Sutures, ETHICON Size 5-0 | VWR | 95056-872 | Silk Suture |
| Phosphate Buffered Saline 1x | Life Technologies | 10010-023 | PBS |
| PhysioSuite System | Kent Scientific | PhysioSuite | Heated Platform Controller |
| Puralube | Henry Schein Animal Health | 008897 | Eye Lubricant |
| Puritan Nonsterile Cotton-Tipped Swabs | Fisher Scientific | 867WCNOGLUE | Cotton Swabs |
| SHARP Precision Barrier Tips, For P-100, 100 μ L | Denville Scientific Inc. | P1125 | 100 μ L Pipet Tips |
| Tetramethylrhodamine isothiocyanate–Dextran | Sigma-Aldrich | T1287-500MG | Vascular Label |
| Window-fixturing plate | NA | NA | Custom made plate for window placement on microscope stage. Plate is made of 0.008 in stainless steel shim stock. For dimensions of plate see Entenberg et al., 2018 [8]. |
| Window Frame | NA | NA | The window is composed of a steel frame with a central aperture that accepts a 5 mm coverslip. A groove of 1.75 mm around the circumference of the frame provides space for the peritoneal muscle and skin layers to adhere to. See Entenberg et al., 2018 [8]. |