

**Materials List for:**

# Mimicking and Manipulating Pancreatic Acinar-To-Ductal Metaplasia in 3-Dimensional Cell Culture

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## Materials

| Name                                                                          | Company            | Catalog Number           | Comments                                                                                                                                                                                     |
|-------------------------------------------------------------------------------|--------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 37 °C shaking incubator                                                       | Thermo Scientific  | SHKE4000-7               |                                                                                                                                                                                              |
| 5% CO <sub>2</sub> , 37 °C Incubator                                          | NUAIRE             | NU-5500                  |                                                                                                                                                                                              |
| 50 ml tubes                                                                   | Falcon             | 352070                   |                                                                                                                                                                                              |
| Absorbent pad, 20" x 24"                                                      | Fisherbrand        | 1420662                  |                                                                                                                                                                                              |
| Adenovirus, Ad-GFP                                                            | Vector Biolabs     | 1060                     |                                                                                                                                                                                              |
| Aluminum foil                                                                 | Fisherbrand        | 01-213-101               |                                                                                                                                                                                              |
| BD Precision Glide Needle 21G x 1/2                                           | Fisher Scientific  | 305167                   | Use as pins for dissection                                                                                                                                                                   |
| Beaker, 600 mL                                                                | Fisherbrand        | FB-101-600               |                                                                                                                                                                                              |
| Bleach, 8.25%                                                                 | Clorox             | 31009                    |                                                                                                                                                                                              |
| Cell Recovery Solution                                                        | Corning            | 354253                   | Referred to as 'basement membrane matrix recovery solution' in the manuscript.                                                                                                               |
| Centrifuge                                                                    | Beckman Coulter    | Allegra X-15R Centrifuge |                                                                                                                                                                                              |
| Collagenase Type I, Clostridium histolyticum                                  | Sigma              | C0130-1G                 | Create a 100 mg/ml solution by dissolving powder in sterile molecular biology grade water. When thawing one aliquot, dilute to 10 mg/ml, filter sterilize and place 1 ml aliquots at -20 °C. |
| Dexamethasone                                                                 | Sigma              | D1756                    | Create a 4 mg/ml solution by dissolving powder in methanol, aliquoting and storing at -20 °C.                                                                                                |
| Ethanol, 200 proof                                                            | Decon Laboratories | 2701                     |                                                                                                                                                                                              |
| Fetal Bovine Serum                                                            | Sigma              | F0926-100mL              |                                                                                                                                                                                              |
| Forceps                                                                       | Fine Science Tools | 11002-12                 |                                                                                                                                                                                              |
| Forceps                                                                       | Fine Science Tools | 91127-12                 |                                                                                                                                                                                              |
| Glass slide, 8-well                                                           | Lab-Tek            | 177402                   |                                                                                                                                                                                              |
| Hank's Balanced Salt Solution (HBSS), No calcium, No magnesium, No phenol red | Fisher Scientific  | SH3048801                |                                                                                                                                                                                              |
| Ice bucket, rectangular                                                       | Fisher Scientific  | 07-210-103               |                                                                                                                                                                                              |
| Instant Sealing Sterilization Pouch                                           | Fisherbrand        | 01-812-51                |                                                                                                                                                                                              |
| LAB GUARD specimen bags (for mouse after dissection)                          | Minigrip           | SBL2X69S                 |                                                                                                                                                                                              |
| Lentiviral Packaging Mix, Virapower                                           | Invitrogen         | 44-2050                  |                                                                                                                                                                                              |

|                                        |                         |             |                                                                                                                             |
|----------------------------------------|-------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------|
| Matrigel                               | Corning                 | 356234      | Referred to as 'basement membrane matrix' in the manuscript.                                                                |
| Parafilm                               | Bemis                   | PM992       | Referred to as 'plastic paraffin film' in the manuscript.                                                                   |
| PBS                                    | Fisher Scientific       | SH30028.02  |                                                                                                                             |
| Penicillin-Streptomycin                | ThermoFisher Scientific | 15140122    |                                                                                                                             |
| Pipet tips, 10 µl                      | USA Scientific          | 1110-3700   |                                                                                                                             |
| Pipet tips, 1000 µl                    | Olympus Plastics        | 24-165RL    |                                                                                                                             |
| Pipet tips, 200 µl                     | USA Scientific          | 1111-1700   |                                                                                                                             |
| Pipet-Aid                              | Drummond                |             |                                                                                                                             |
| PIPETMAN Classic P10, 1-10 µl          | Gilson                  | F144802     |                                                                                                                             |
| PIPETMAN Classic P1000, 200-1000 µl    | Gilson                  | F123602     |                                                                                                                             |
| PIPETMAN Classic P20, 2-20 µl          | Gilson                  | F123600     |                                                                                                                             |
| PIPETMAN Classic P200, 20-200 µl       | Gilson                  | F123601     |                                                                                                                             |
| Pipettes, 10 ml                        | Falcon                  | 357551      |                                                                                                                             |
| Pipettes, 25 ml                        | Falcon                  | 357525      |                                                                                                                             |
| Pipettes, 5 ml                         | Falcon                  | 357543      |                                                                                                                             |
| Plate, 12-well                         | Corning Costar          | 3513        |                                                                                                                             |
| Plate, 24-well plate                   | Corning Costar          | 3524        |                                                                                                                             |
| Plate, 35 mm                           | Falcon                  | 353001      |                                                                                                                             |
| Plate, 6-well                          | Falcon                  | 353046      |                                                                                                                             |
| Polybrene                              | EMD Millipore           | TR-1003-G   | Create a 40 mg/ml solution by dissolving powder in sterile molecular biology grade water, aliquoting and storing at -20 °C. |
| Polypropylene Mesh, 105 µm             | Spectrum Labs           | 146436      |                                                                                                                             |
| Polypropylene Mesh, 500 µm             | Spectrum Labs           | 146418      |                                                                                                                             |
| Scissors                               | Fine Science Tools      | 14568-12    |                                                                                                                             |
| Scissors                               | Fine Science Tools      | 91460-11    |                                                                                                                             |
| Sodium Bicarbonate (Fine White Powder) | Fisher Scientific       | BP328-500   |                                                                                                                             |
| Sodium Hydroxide                       | Fisher Scientific       | S318-500    |                                                                                                                             |
| Soybean Trypsin Inhibitor <sup>8</sup> | Gibco                   | 17075029    |                                                                                                                             |
| Spatula                                | Fisherbrand             | 21-401-10   |                                                                                                                             |
| Steriflip 50 ml, 0.22 micron filters   | Millipore               | SCGP00525   |                                                                                                                             |
| TGF-α                                  | R&D Systems             | 239-A-100   |                                                                                                                             |
| Type I Rat Tail Collagen               | Corning                 | 354236      |                                                                                                                             |
| Waymouth MB 752/1 Medium (powder)      | Sigma                   | W1625-10X1L |                                                                                                                             |
| Weigh boat, hexagonal, medium          | Fisherbrand             | 02-202-101  |                                                                                                                             |