

|                                                    |
|----------------------------------------------------|
| <b>Name of Material/ Equipment</b>                 |
| <b>Gel fabrication - Reagents</b>                  |
| FEFEFKFK                                           |
| PBS 10X                                            |
| Sodium hydroxide (1 M)                             |
| Water                                              |
| <b>Gel fabrication - Equipment and Consumables</b> |
| 15 mL falcon tubes                                 |
| 24 well plate                                      |
| Centrifuge                                         |
| Class II Microbiological Safety Cabinet            |
| Fine balance                                       |
| Hanging insert for 24 well plate                   |
| Incubator                                          |
| Oven                                               |
| P1000/200/20/10 pipette                            |
| P1000/200/20/10 tips                               |
| pH meter with microprobe                           |
| Spatula                                            |
| Vortex                                             |
| <b>Matrix addition</b>                             |
| Collagen I (human)                                 |
| Collagen I (rat tail)                              |
| Fibronectin                                        |
| Hyaluronic Acid                                    |
| Matrigel                                           |
| <b>Cell encapsulation/culture</b>                  |
| B27 Supplement (no retinoic acid)                  |
| Cholera toxin                                      |
| DMEM                                               |
| DMEM/F12                                           |
| DMEM/F12 Phenol Red Free                           |
| DPBS                                               |
| EGF                                                |
| Fetal Bovine Serum                                 |
| Horse serum                                        |
| Human cancer/epithelial cell lines                 |
| Human mammary fibroblasts                          |
| Hydrocortisone                                     |
| Insulin                                            |
| Knockout serum replacement                         |
| L-glutamine                                        |
| RPMI                                               |
| <b>RPMI Phenol Red Free</b>                        |
| <b>Imaging and other assays</b>                    |
| 4% paraformaldehyde                                |
| Agar                                               |
| Bovine Serum Albumin (BSA)                         |
| Confocal and/or fluorescent microscope             |

|                                                   |
|---------------------------------------------------|
| DAPI solution                                     |
| DPX mounting medium                               |
| Glass cover slips                                 |
| Glass-bottom dishes                               |
| Goat Anti-Rabbit IgG H&L (HRP polymer)            |
| Haematoxylin and Eosin                            |
| Histology molds (disposable, plastic)             |
| Image analysis software                           |
| Live/Dead assay kit                               |
| Microtome                                         |
| Phalloidin                                        |
| Pierce Peroxidase IHC Detection Kit               |
| Primary Ab Caspase 3                              |
| Primary Ab Collagen I                             |
| Primary Ab pFAK Tyr 397                           |
| Prolong gold/diamond anti-fade mountant with DAPI |
| Rheometer Physica MCR 301                         |
| Scalpel                                           |
| Secondary antibody Goat anti Rabbit AF488         |
| Secondary antibody Goat anti Rabbit AF546         |
| SuperFrost slides                                 |
| Triton X 100                                      |
| Trypsin-EDTA (0.25%)                              |
| Vibratome                                         |

| Company | Catalog Number |
|---------|----------------|
|---------|----------------|

|               |           |
|---------------|-----------|
| Pepceuticals  | n/a       |
| Gibco         | 70011-036 |
| Sigma-Aldrich | S2770     |
| Sigma-Aldrich | W3500     |

|                |           |
|----------------|-----------|
| Greiner        | 188261    |
| Corning Costar | 3524      |
| Any            |           |
| Any            |           |
| Any            |           |
| Millipore      | MCRP24H48 |
| Any            |           |
| Any            |           |
| Any            |           |
| Any            |           |
| Any            |           |
| Any            |           |
| Any            |           |

|                        |        |
|------------------------|--------|
| Stem Cell Technologies | 07005  |
| Gibco                  | A10483 |
| Stem Cell Technologies | 07159  |
| Iduron                 | HA804  |
| Corning                | 354234 |

|                      |              |
|----------------------|--------------|
| Gibco                | 12587010     |
| Sigma-Aldrich        | C-8052       |
| Gibco                | 21969-035    |
| Sigma-Aldrich        | D8062        |
| Gibco                | 21041-025    |
| Gibco                | 14190-094    |
| SourceBiosciences    | ABC016       |
| Gibco                | 10500-064    |
| Gibco                | 26050-070    |
|                      |              |
|                      |              |
| Sigma-Aldrich        | H-0888       |
| Sigma-Aldrich        | I9278        |
| Gibco                | 10828-028    |
| Gibco                | 25030-024    |
| Gibco                | 21875-034    |
| <b>Sigma-Aldrich</b> | <b>R7509</b> |

|               |         |
|---------------|---------|
| Polysciences  | 18814   |
| SLS           | CHE1070 |
| Sigma-Aldrich | 05482   |
| Any           |         |

|                            |           |
|----------------------------|-----------|
| Invitrogen                 | D3571     |
| ThermoFisher Scientific    |           |
| Any                        |           |
| MatTek                     |           |
| Abcam                      | ab214880  |
| Any                        |           |
| Any                        |           |
| ImageJ                     |           |
| Invitrogen                 | L3224     |
| Any                        |           |
| Life Technologies          | F432/R415 |
| ThermoFisher Scientific    | 36000     |
| Cell Signalling Technology | 9661      |
| Abcam                      | ab34710   |
| ThermoFisher Scientific    | 44-624G   |
| Molecular Probes           | S36939    |
| Anton Paar                 |           |
| Any                        |           |
| nvitrogen                  | a11034    |
| Invitrogen                 | a11010    |
| ThermoFisher Scientific    |           |
| Sigma-Aldrich              | X100      |
| Gibco                      | 25300054  |
| Leica                      |           |

[illegible]

300 uM working solution

|                                         |
|-----------------------------------------|
| No1 coverslips 0.13 - 0.17 mm thickness |
|-----------------------------------------|

Shown in **Figure 3C**

Shown in **Figure 4B, C, F**

Shown in **Figure 4E**

Coating e.g. APES can help to retain microtome sections on slides