

Supplementary Table 3. Processed samples for derivation of two-dimensional tissue cultures.

| Specimen ID | Primary specimen | Diagnosis resection                         | TNM                                | Viability cells (%) | Outgrowth island (Y/N) | Transfection (Y/N) | Outgrowth        | Immortalization |
|-------------|------------------|---|------------------------------------|---------------------|------------------------|--------------------|------------------|-----------------|
| PD01        | Pancreatic duct  | PDAC  | pT1c pN0 (0/12) G3 R0 L1 V0 Pn1    | 0                   | N                      | N                  | none             | N               |
| PD02        | Pancreatic duct  | IPMN  | pT2 pN0(0/32) G2 L0 V0 R0          | 0                   | N                      | N                  | none             | N               |
| PD03        | Pancreatic duct  | PDAC  | pTx pNx R0 (neoadjuvant treatment) | 70                  | Y                      | N                  | epithelial cells | N               |
| PD04        | Pancreatic duct  | Papillary adenocarcinoma                    | pT2 pN0 (0/10) G2 R0 L0 V0 Pn0     | 80                  | Y                      | N                  | epithelial cells | N               |
| PD05        | Pancreatic duct  | PDAC  | pT2 G2 N2(4/20) R0 L1 V0 Pn1       | 0                   | N                      | N                  | none             | N               |
| PD06        | Pancreatic duct  | PDAC  | pT3 pN0 (0/33) G3 R0 L0 V0 Pn0     | 80                  | N                      | N                  | senescence       | N               |
| PD07        | Pancreatic duct  | PDAC  | pT2 pN2(6/27) G2 R0 L1 V0 Pn1      | 70                  | N                      | N                  | senescence       | N               |
| PD08        | Pancreatic duct  | Pancreatic solid pseudopapillary neoplasia  | non-invasive                       | 0                   | N                      | N                  | none             | N               |
| PD09        | Pancreatic duct  | Ampulla Vateri adenocarcinoma               | pT3a pN2 (4/20) L0 V0 G2 R0 Pn0    | 0                   | N                      | N                  | none             | N               |
| PD10        | Pancreatic duct  | PDAC  | pT2 pN1 (1/13) G3 R1 L1 V1 Pn1     | 25                  | Y                      | N                  | epithelial cells | N               |
| PD11        | Pancreatic duct  | PDAC  | pT2 pN2(11/25) G2 R0 L1 V0 Pn1     | 0                   | N                      | N                  | none             | N               |
| PD12        | Pancreatic duct  | Duodenal adenocarcinoma                     | pT4 pN2 (3/22) G2 R0 L0 V0 Pn1     | 55                  | N                      | N                  | senescence       | N               |
| PD13        | Pancreatic duct  | Chronic pancreatitis                        | non-invasive                       | 50                  | N                      | N                  | senescence       | N               |
| PD14        | Pancreatic duct  | PDAC  | pT3 pN0 (0/12) pM1 G3 L1 V0 Pn1 R  | 80                  | Y                      | N                  | epithelial cells | N               |
| PD15        | Pancreatic duct  | IPMN  | non-invasive                       | 50                  | N                      | N                  | senescence       | N               |
| PD16        | Pancreatic duct  | PDAC  | pT2 pN0 (0/22) G2 R0 L0 V0 Pn1     | 0                   | N                      | N                  | none             | N               |
| PD17        | Pancreatic duct  | Ampulla Vateri adenocarcinoma               | pT2 pN0 (0/16) G2 L1 V0 Pn1 R0     | 0                   | N                      | N                  | none             | N               |
| PD18        | Pancreatic duct  | PDAC  | pT2 pN0 (0/22) L0 V0 Pn1 R0 G2     | 20                  | N                      | N                  | senescence       | N               |
| PD19        | Pancreatic duct  | PDAC  | pT2 pN2 (7/25) G3 R0 L0 V1 Pn1     | 95                  | Y                      | N                  | epithelial cells | N               |
| PD20        | Pancreatic duct  | PDAC  | pT1c pN2(4/9) G3 R0 L1 V1 Pn1      | 80                  | N                      | N                  | senescence       | N               |
| PD21        | Pancreatic duct  | PDAC  | pT3 pN2(10/21) G3 L0 V0 Pn1 R1     | 30                  | N                      | N                  | senescence       | N               |
| PD22        | Pancreatic duct  | PDAC  | pT2 pN0(0/9) L0 V0 Pn0 G2 R1       | 50                  | N                      | N                  | senescence       | N               |
| PD23        | Pancreatic duct  | Cholangiocellular carcinoma                 | pT3 pN2(7/43) L1 Pn1 V0 G3 R1      | 0                   | N                      | N                  | none             | N               |
| PD24        | Pancreatic duct  | Acinar adenocarcinoma                       | pT2 pN0 (0/10) G2 L1 V0 Pn0 R0     | 0                   | N                      | N                  | none             | N               |
| PD25        | Pancreatic duct  | IPMN  | non-invasive                       | 0                   | N                      | N                  | none             | N               |
| PD26        | Pancreatic duct  | Undifferentiated pancreatic adenocarcinoma  | pT3 pN2(4/20) G3 L1 V1 Pn1 R1      | 45                  | N                      | N                  | senescence       | N               |
| PD27        | Pancreatic duct  | NCC metastasis pancreas                     | NA                                 | 70                  | N                      | N                  | senescence       | N               |
| PD28        | Pancreatic duct  | PDAC  | pT3 pN2(8/19) L1 V1 Pn1 G3 R0      | 0                   | N                      | N                  | none             | N               |
| PD29        | Pancreatic duct  | PDAC  | pT3 pN1 (1/29) L0 V0 pN1 R0        | 50                  | N                      | N                  | senescence       | N               |
| PD30        | Pancreatic duct  | PDAC  | pT2 pN2 (9/37) G3 R0 L0 V0 Pn1     | 0                   | N                      | N                  | none             | N               |
| PD31        | Pancreatic duct  | PDAC  | pT3 pN1(2/35) G3 R0 L0 V0 Pn1      | 0                   | N                      | N                  | none             | N               |
| PD32        | Pancreatic duct  | PDAC  | pT2 pN1 (1/22) G2 R1 L0 V0 Pn1     | 80                  | Y                      | Y                  | epithelial cells | N               |
| PD33        | Pancreatic duct  | PDAC  | pT2 pN1 (3/18) G2 R0 L0 V0 Pn0     | 55                  | N                      | N                  | senescence       | N               |
| PD34        | Pancreatic duct  | PDAC  | pT3 pN1 (3/29) G3 L0 V0 R0 Pn0     | 0                   | N                      | N                  | none             | N               |
| PD35        | Pancreatic duct  | Chronic pancreatitis                        | non-invasive                       | 0                   | N                      | N                  | none             | N               |
| PD36        | Pancreatic duct  | Adenosquamous carcinoma                     | pT3 pN0(0/13) G3 Pn1 R2            | 75                  | N                      | N                  | senescence       | N               |
| PD37        | Pancreatic duct  | PDAC  | pT1c pN1(1/14) L0 V0 Pn1 G2 RX     | 0                   | N                      | N                  | none             | N               |
| PD38        | Pancreatic duct  | Colloid carcinoma of the pancreas           | pT2 pN0 (0/6) R0 G1 L0 V0 Pn0      | 70                  | N                      | N                  | senescence       | N               |
| PD39        | Pancreatic duct  | PDAC  | pT2 pN0(0/7) G1 R0 L0 V0 Pn1       | 75                  | N                      | N                  | senescence       | N               |
| PD40        | Pancreatic duct  | Chronic pancreatitis                        | non-invasive                       | 0                   | N                      | N                  | none             | N               |
| PD41        | Pancreatic duct  | PDAC  | pT2 pN2(8/45) G2 R0 L1 V0 Pn1      | 0                   | N                      | N                  | none             | N               |
| PD42        | Pancreatic duct  | PDAC  | pT2 pN0(0/29) G2 R0 L0 V0 Pn1      | 50                  | N                      | N                  | senescence       | N               |
| PD43        | Pancreatic duct  | PDAC  | pT2 pN1 (3/29) G2 R0 L0 V0 Pn1     | 0                   | N                      | N                  | none             | N               |
| PD44        | Pancreatic duct  | PDAC  | pT2 pN2 pN2 (8/42) G3 L0 V0 Pn1    | 0                   | N                      | N                  | none             | N               |
| PD45        | Pancreatic duct  | Ampulla Vateri atypical carcinoid carcinoma | pT2 pN1 (1/7) pM1a Pn0 R0          | 0                   | N                      | N                  | none             | N               |
| PD46        | Pancreatic duct  | Chronic pancreatitis                        | non-invasive                       | 0                   | N                      | N                  | none             | N               |
| PD47        | Pancreatic duct  | Solid pseudopapillary neoplasm              | non-invasive                       | 85                  | Y                      | Y                  | epithelial cells | Y               |
| PD48        | Pancreatic duct  | Pancreatic mucinous adenocarcinoma          | pT2 N1 (1/38) G3 R1 L1 V0 Pn1      | 30                  | N                      | N                  | senescence       | N               |
| PD49        | Pancreatic duct  | PDAC  | pT3 pN1 (1/18) G2 R0 L0 V0 Pn0     | 20                  | Y                      | N                  | epithelial cells | N               |
| PD50        | Pancreatic duct  | PDAC  | pT2pN0(0/4)G1R0L0V0Pn0             | 50                  | N                      | N                  | senescence       | N               |
| PD51        | Pancreatic duct  | NET   | pT2 pN0 (0/17) G1 R0 L0 V0 Pn0     | 70                  | Y                      | Y                  | epithelial cells | Y               |
| PD52        | Pancreatic duct  | Mucinous cyst neoplasia                     | non-invasive                       | 45                  | N                      | N                  | senescence       | N               |
| PD53        | Pancreatic duct  | PDAC  | pT2 pN2 (5/39) L1 V0 Pn1 G2 R0     | 10                  | N                      | N                  | senescence       | N               |
| PD54        | Pancreatic duct  | PDAC  | pT3 pN2(13/45) L1 V1 Pn1 G3 R1     | 0                   | N                      | N                  | none             | N               |
| PD55        | Pancreatic duct  | IPMN  | non-invasive                       | 0                   | N                      | N                  | none             | N               |
| PD56        | Pancreatic duct  | Chronic pancreatitis                        | non-invasive                       | 45                  | N                      | N                  | senescence       | N               |
| PD57        | Pancreatic duct  | PDAC  | pT1c pN1 (2/21) G3 R0 L0 V0 Pn1    | 70                  | N                      | N                  | senescence       | N               |
| PD58        | Pancreatic duct  | PDAC  | pT2 pN2 (14/33) L1 V0 Pn1 G3 R0    | 0                   | N                      | N                  | none             | N               |
| PD59        | Pancreatic duct  | Ampulla Vateri Adenocarcinoma               | pT3b pN2(6/27) L1 V0 Pn1 G3 R0     | 70                  | N                      | N                  | senescence       | N               |
| PD60        | Pancreatic duct  | PDAC  | pT2 pN2 (4/26) G2 R0 L1 V0 Pn1     | 0                   | N                      | N                  | none             | N               |
| PD61        | Pancreatic duct  | PDAC  | pT3 pN2 (13/25) L1 V0 Pn1 G3 R1    | 15                  | N                      | N                  | senescence       | N               |
| PD62        | Pancreatic duct  | IPMN  | non-invasive                       | 90                  | Y                      | Y                  | epithelial cells | Y               |
| PD63        | Pancreatic duct  | IOPN  | non-invasive                       | 25                  | N                      | N                  | senescence       | N               |
| PD64        | Pancreatic duct  | PDAC  | pT2 pN2 (5/28) L0 V0 Pn1 G2 R1     | 50                  | Y                      | N                  | epithelial cells | N               |
| PD65        | Pancreatic duct  | Metastasis hepatocellular carcinoma         | NA                                 | 50                  | N                      | N                  | senescence       | N               |
| PD66        | Pancreatic duct  | IPMN  | non-invasive                       | 75                  | Y                      | Y                  | epithelial cells | N               |
| PD67        | Pancreatic duct  | PDAC  | pT2 pN0 (0/12) L0 V0 Pn1 G2 R1     | 0                   | N                      | N                  | none             | N               |
| PD68        | Pancreatic duct  | PDAC  | pT2 pN2 (4/16) G2 L0 V0 Pn1 R0     | 0                   | N                      | N                  | none             | N               |
| PD69        | Pancreatic duct  | IPMN  | non-invasive                       | 25                  | Y                      | Y                  | epithelial cells | N               |
| PD70        | Pancreatic duct  | NET   | pT1 G1 L0 V0 R0                    | 65                  | Y                      | Y                  | epithelial cells | N               |
| PD71        | Pancreatic duct  | PDAC  | pT2 pN1 (2/15) G2 L0 V0 Pn1 R0     | 70                  | Y                      | N                  | epithelial cells | N               |