

Table S9. Comparison of clinical and pathological characteristics between likely related and likely independent carcinomas and co-occurring IPMNs.

| PDAC               | Total cases<br>(adj-IPMN/dist-IPMN) | Gender       | Age                | Cancer |           |       |              | IPMN  |            |           |     |            |       |            |                  |            |
|--------------------|-------------------------------------|--------------|--------------------|--------|-----------|-------|--------------|-------|------------|-----------|-----|------------|-------|------------|------------------|------------|
|                    |                                     |              |                    | T      | N         | Grade | Size<br>(cm) | Grade | Type       | Subtype   |     |            |       |            |                  |            |
| likely related     | 26                                  | M 65.4% (17) | 69.1<br>(+/- 9.4)  | T1     | 11.5% (3) | N0    | 34.6% (8)    | 1     | 3.9% (1)   | 2.7       | LGD | 8.7% (2)   | BD    | 57.1% (12) | Gastric          | 46.2% (12) |
|                    |                                     | F 34.6% (9)  |                    | T2     | 34.6% (9) | N1    | 65.4% (17)   | 2     | 57.7% (15) | (+/- 2.2) | HGD | 91.3% (23) | MD    | 23.8 (5)   | Intestinal       | 15.4% (4)  |
|                    |                                     |              |                    | T3     | 50% (13)  |       |              | 3     | 38.5% (10) |           |     |            | Mixed | 19.1% (4)  | Pancreatobiliary | 34.6% (9)  |
|                    |                                     |              |                    | T4     | 3.8% (1)  |       |              |       |            |           |     |            |       |            | Oncocytic        | 3.8% (1)   |
| likely independent | 11                                  | M 55% (6)    | 71.9<br>(+/- 11.0) | T1     | 0% (0)    | N0    | 36% (4)      | 1     | 0% (0)     | 3.1       | LGD | 27% (3)    | BD    | 40% (4)    | Gastric          | 64% (7)    |
|                    |                                     | F 45% (5)    |                    | T2     | 64% (7)   | N1    | 64% (7)      | 2     | 45% (5)    | (+/- 1.8) | HGD | 73% (8)    | MD    | 50% (5)    | Intestinal       | 0% (0)     |
|                    |                                     |              |                    | T3     | 36% (4)   |       |              | 3     | 55% (6)    |           |     |            | Mixed | 10% (1)    | Pancreatobiliary | 18% (2)    |
|                    |                                     |              |                    | T4     | 0% (0)    |       |              |       |            |           |     |            |       |            | Oncocytic        | 18% (2)    |
| Indeterminate      | 19                                  | M 63% (12)   | 68.6<br>(+/- 13.4) | T1     | 16% (3)   | N0    | 26% (5)      | 1     | 5% (1)     | 2.6       | LGD | 37% (7)    | BD    | 68.8% (11) | Gastric          | 83.3% (15) |
|                    |                                     | F 37% (7)    |                    | T2     | 32% (6)   | N1    | 74% (14)     | 2     | 79% (15)   | (+/- 1.9) | HGD | 63% (12)   | MD    | 18.8% (3)  | Intestinal       | 0% (0)     |
|                    |                                     |              |                    | T3     | 47% (9)   |       |              | 3     | 16% (3)    |           |     |            | Mixed | 12.5% (2)  | Pancreatobiliary | 11.1% (2)  |
|                    |                                     |              |                    | T4     | 5% (1)    |       |              |       |            |           |     |            |       |            | Oncocytic        | 5.6% (1)   |
| Significance*      |                                     | ns           | ns                 | ns     | ns        | ns    | ns           | ns    | ns         | ns        | ns  | ns         | ns    | ns         | ns               |            |

\* tests were performed via ANOVA test for continuous variables or Fisher-Exact test for categorical variables