Description of Additional Supplementary Files

Supplementary Data 1: Differential expressed (DE) genes – all cell types.

Supplementary Data 2: Differential expressed genes – between metaplastic cells and acinar cells.

Supplementary Data 3: Differential expressed genes – between metaplastic cells and ductal cells.

Supplementary Data 4: Differential expressed genes – acinar, ductal, metaplastic and stomach cells.

Supplementary Data 5: Differential expressed genes – between acinar cells and early metaplastic cells ("triple positive").

Supplementary Data 6: Differential expressed genes – between early metaplastic cells ("triple positive") and late metaplastic cells.

Supplementary Data 7: Differential expressed genes – human PDAC sample.

Supplementary Data 8: Differential expressed genes between stomach pit cells and metaplastic pit-like.

Supplementary Data 9: Quantities analysis of metaplastic cell-types and states.

Supplementary Data 10: Differential expressed genes in immune and stromal cells