

Description of Additional Supplementary Files

File name: Supplementary Data 1

Description: The numerical source data for a percentage of organoid harvestability results (Fig. 2b graph), b plots of organoid sizes (Fig. 2c,d,e,f,g graphs), c extracellular glutamate concentrations of organoids (Fig. 5d graph), d percentage of apoptotic zone (Fig. 6d graph)

File name: Supplementary Data 2

Description: Biological process (Gene Ontology) enrichment dataset of upregulated genes in all maturation systems and time intervals. a Upregulated genes, b Network statistics and c Enriched Biological process (GO) terms (uploaded separately as an excel file)

File name: Supplementary Data 3

Description: Tissue expression (TISSUE) enrichment dataset of upregulated genes in all maturation systems and time intervals. a Upregulated genes, b Network statistics, and c Enriched Tissue expression (TISSUE) terms (uploaded separately as an excel file)