

Description of Additional Supplementary Files

File name: Supplementary Video 1.

Description: Spatial organization of blood capillary portions and circulating cells in HB PDX Sample 1. See also legend of Supplementary Fig.2.

File name: Supplementary Video 2.

Description: 3D organisation of tumour cell and its main subcellular components in HB PDX Sample 2. See legend of Supplementary Fig.3.

File name: Supplementary Video 3.

Description: Tumour and non-tumour components of HB PDX Sample 2. See legend of Fig. 2A-C.

File name: Supplementary Video 4.

Description: Alignment in plane of tumour cells or tumour cell nuclei versus blood capillary in HB PDX Sample 2. See legend of Fig. 2D.

File name: Supplementary Video 5.

Description: A set of tumour cells polarize in direction of a bile canaliculus-like structure. See legend of Fig. 3.

File name: Supplementary Video 6.

Description: Spatial organization of 21 cells and their organelles in HB PDX Sample 2. See legends of Fig. 4B and of Supplementary Fig. 9.

File name: Supplementary Data 1.

Description: File containing all values measured in our study and used to elaborate the Figure 2e, Figures 4a and 4c, Supplementary Figure 2f and Supplementary Figure 8a-b.