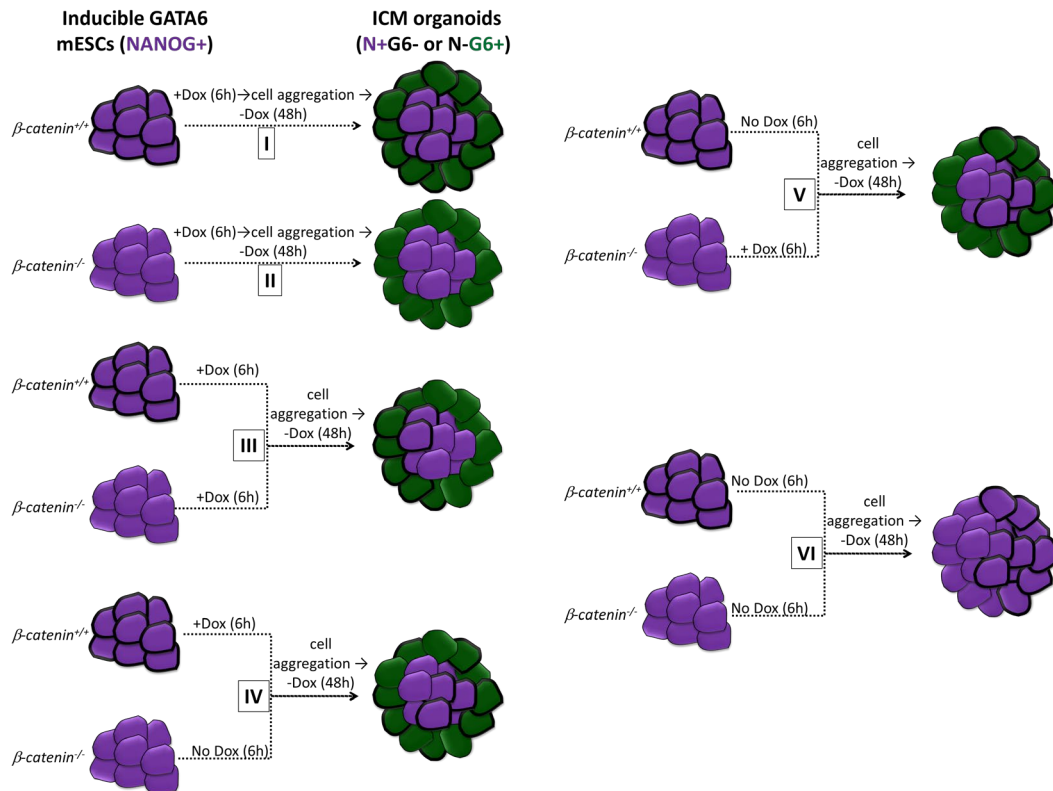


## Fig 6 and S6 related cells quantifications:

Quantitative single cell analysis of tet::Gata6-mCherry mESCs wt and mutant for  $\beta$ -catenin used to form ICM organoids in diverse chimeric compositions stained for DAPI (Ch1), NANOG (Ch2), GATA5 (Ch3) and total  $\beta$ -catenin (Ch4). The number after each file name depicts the organoid image number. WT (1) or Mut (2) cells were annotated manually based on total  $\beta$ -catenin staining



I: corresponds to “C4dox” files

II: corresponds to “C5dox” files

III: corresponds to “C4dox C5dox” files

IV: corresponds to “C4dox C5PD” files

V: corresponds to “C4PD C5dox” files

VI: corresponds to “C4PD C5PD” files

In TE/ICM column: 1 is for WT cells and 2 is for mutant cells