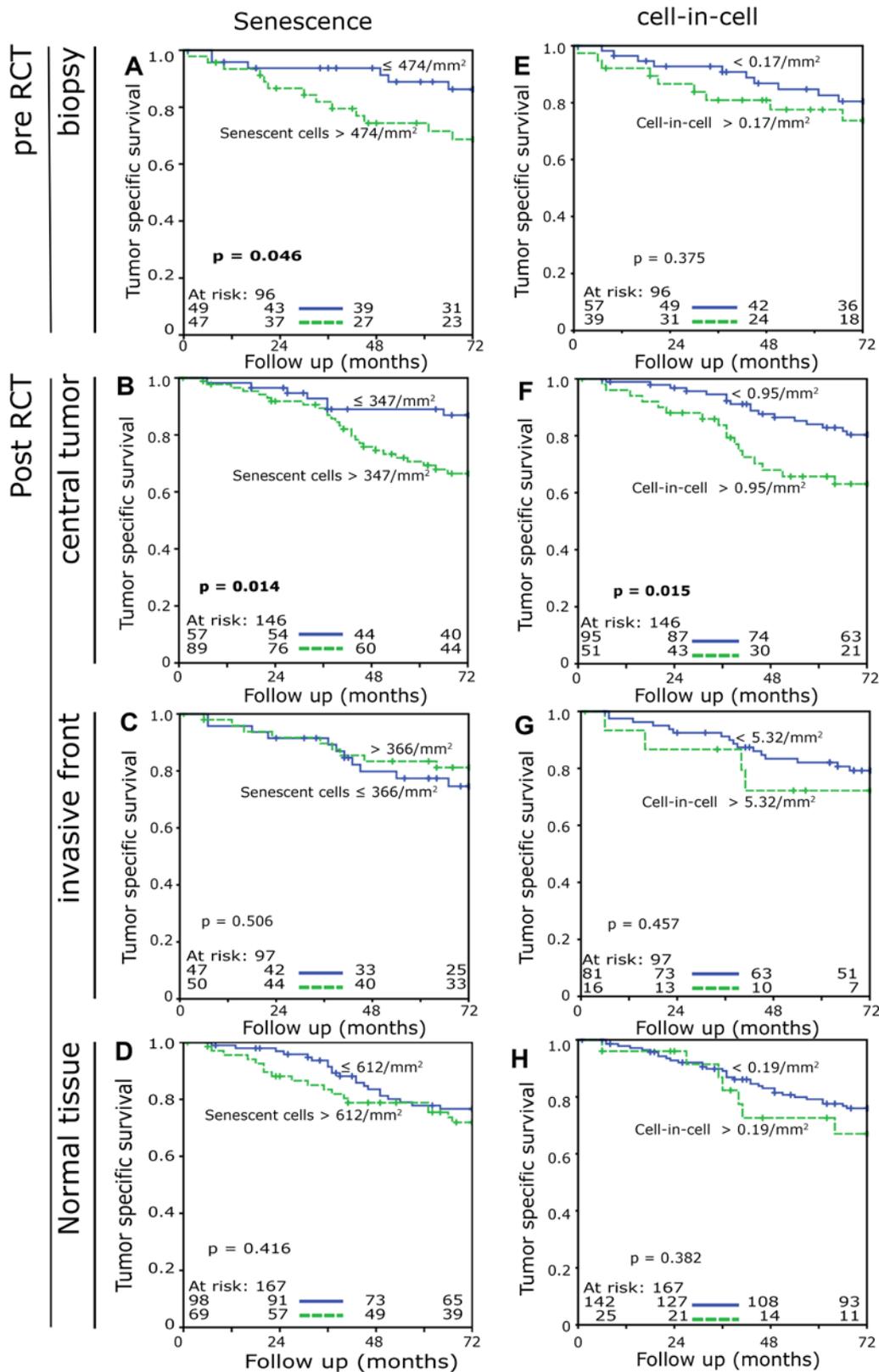
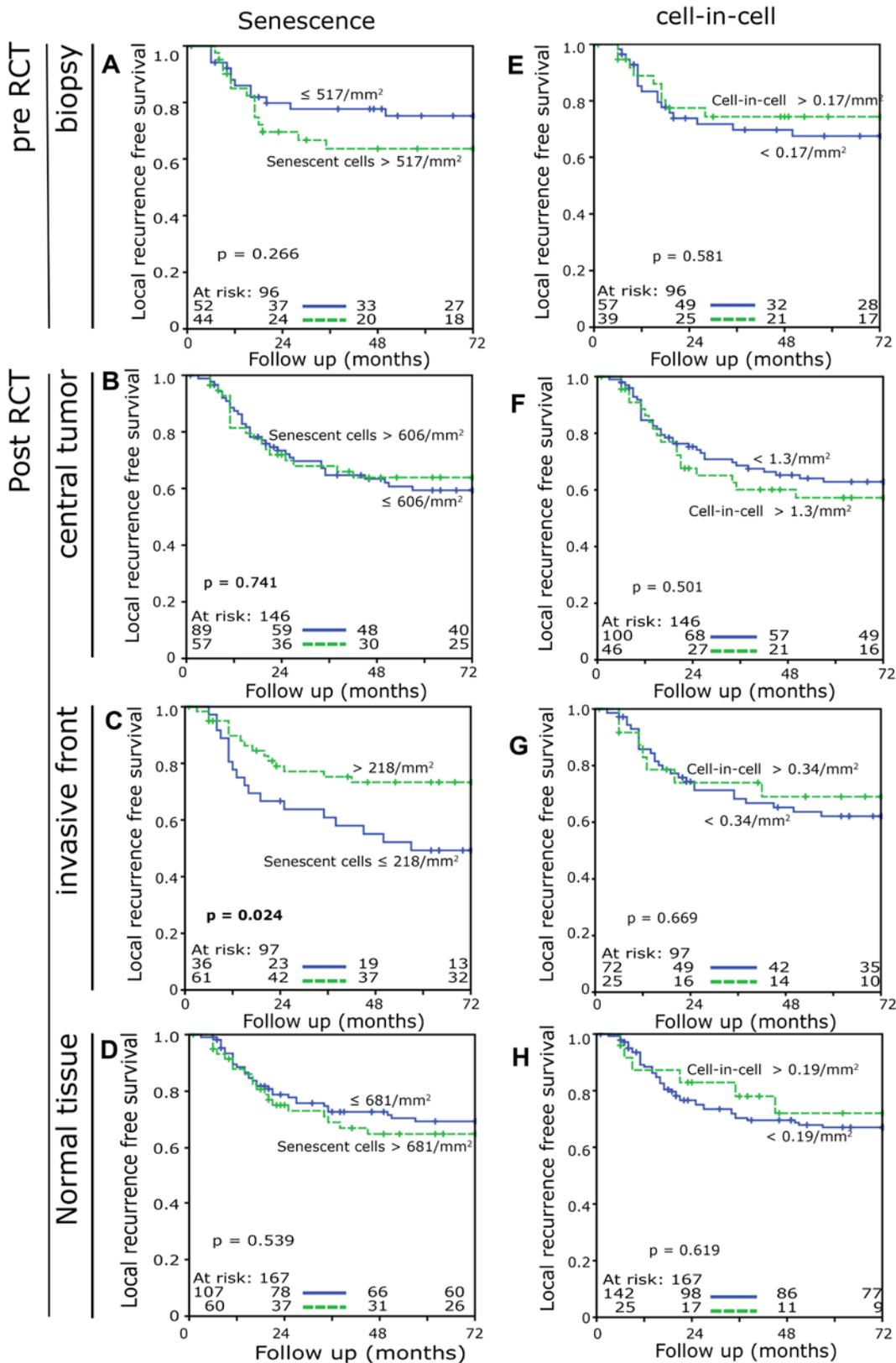


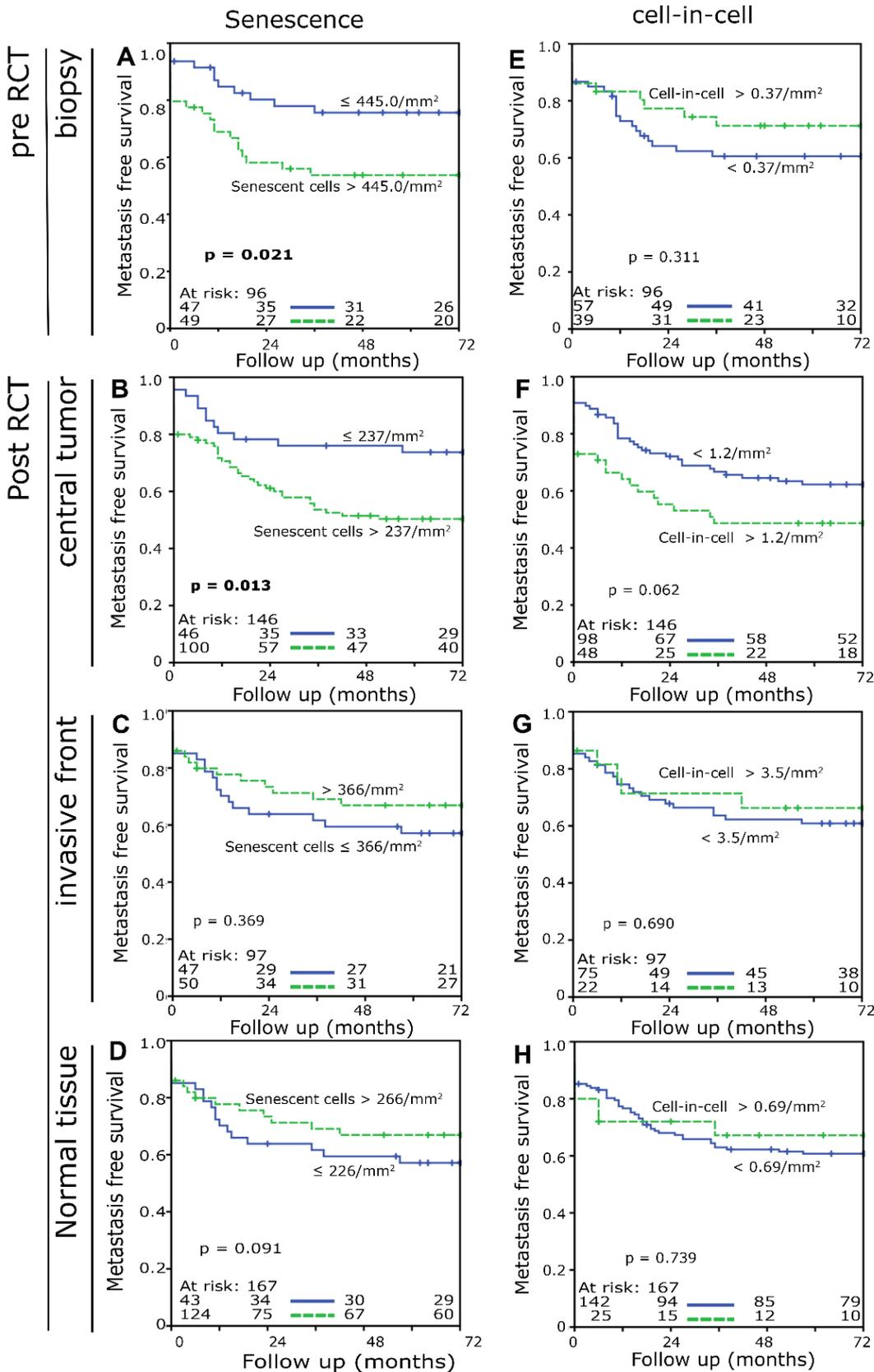
**Additional figure 1:** Senescence induction by 120 nM Camptothecin for 5 days in a pancreas carcinoma cell line and two skin fibroblasts cell cultures. (A) Representative images of the stained nuclei (dapi), senescent staining (p21) and combined images (merge). (B) Percentage of p21 positive cells of untreated and Camptothecin treated cells. Differences were analyzed by a two-tailed unpaired Mann-Whitney U.



**Additional figure 2:** Prognostic significance of intraepithelial senescent cell density/ $\text{mm}^2$  and cell-in-cell phenomena density/ $\text{mm}^2$  in Kaplan Meier plots for tumor specific survival. The cut-off values were determined by the ROC curve analysis. This resulted in specific cut off values for each individual analysis. Five-year survival rates are given in brackets after the designation of the corresponding cut-off values. (A) Senescent cell density in tissue micro arrays of biopsies, (B) central tumor (C) invasive tumor front and (D) normal tissue from tumor resection. (E) Cell-in-cell density in tissue micro arrays of biopsies, (F) central tumor (G) invasive tumor front and (H) normal tissue from tumor resection. Statistical significance was checked by the log-rank test.



**Additional figure 3:** Prognostic significance of intraepithelial senescent cell density/mm<sup>2</sup> and cell-in-cell phenomena density/mm<sup>2</sup> in Kaplan Meier plots for local recurrence free survival. The cut-off values were determined by the ROC curve analysis. This resulted in specific cut off values for each individual analysis. Five-year survival rates are given in brackets after the designation of the corresponding cut-off values. (A) Senescent cell density in tissue micro arrays of biopsies, (B) central tumor (C) invasive tumor front and (D) normal tissue from tumor resection. (E) Cell-in-cell density in tissue micro arrays of biopsies, (F) central tumor (G) invasive tumor front and (H) normal tissue from tumor resection. Statistical significance was checked by the log-rank test.



**Additional figure 4:** Prognostic significance of intraepithelial senescent cell density/ $\text{mm}^2$  and cell-in-cell phenomena density/ $\text{mm}^2$  in Kaplan Meier plots for metastasis free survival. The cut-off values were determined by the ROC curve analysis. This resulted in specific cut off values for each individual analysis. Five-year survival rates are given in brackets after the designation of the corresponding cut-off values. (A) Senescent cell density in tissue micro arrays of biopsies, (B) central tumor (C) invasive tumor front and (D) normal tissue from tumor resection. (E) Cell-in-cell density in tissue micro arrays of biopsies, (F) central tumor (G) invasive tumor front and (H) normal tissue from tumor resection. Statistical significance was checked by the log-rank test.