



**Supplementary Fig. 1.** (A) Time points for PBL isolation relative to chemotherapy (CT) are shown, along with the corresponding  $\gamma$ -H2AX assay time points following CT or X-ray exposure, used to assess DNA damage repair. (B) Time points for PBL isolation and  $\gamma$ -H2AX assay during CaCx radiotherapy are illustrated, involving a total dose of 50 Gy delivered in 25 fractions, with or without concurrent weekly cisplatin. (Source: created using BioRender).