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A 3D-bioprinted collagen *in vitro* model of Ewing sarcoma: Feasibility platform for drug screening

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Supplementary File

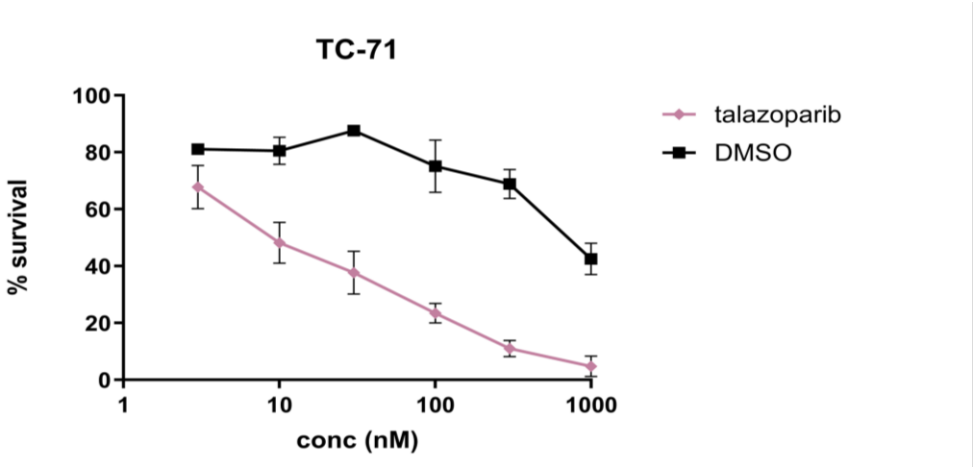


Figure S1. Percentage of Survival of TC-71 Cell Line in 2D Culture Conditions Following Talazoparib Treatment and DMSO Exposure at Day 3. This figure illustrates the survival rates of TC-71 cells subjected to talazoparib treatment at different doses alongside varying concentrations of dimethyl sulfoxide (DMSO) in 2D culture conditions at day 3 post-exposure.

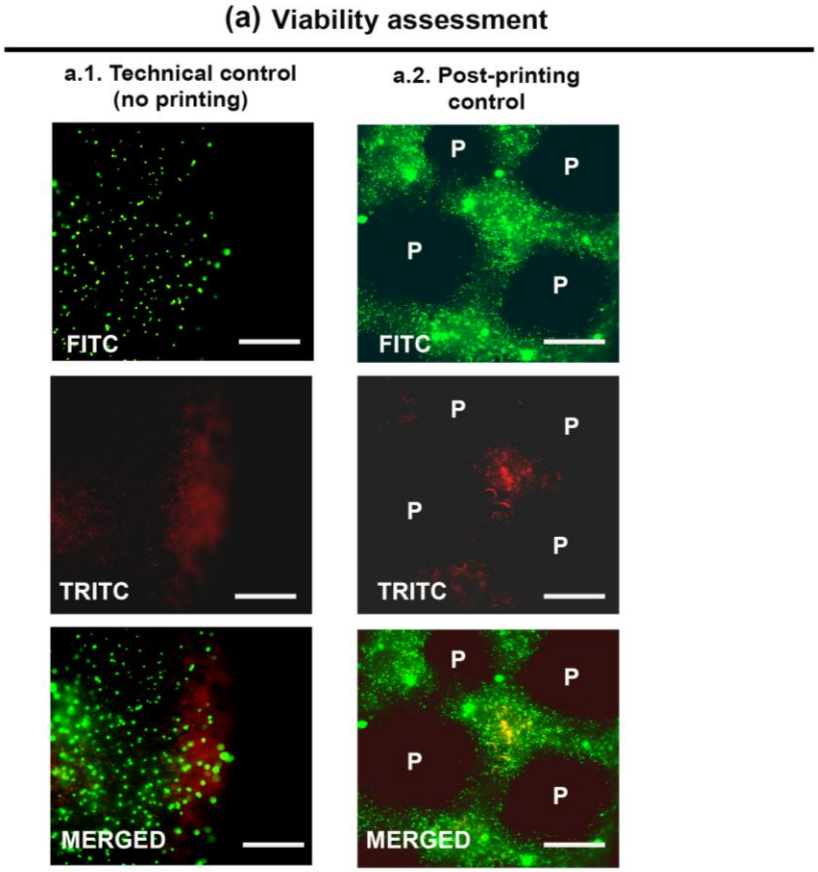


Figure S2. Live and Dead assessment of the 3D EwS model. Representative fluorescence microscopy images after the Live/Dead test for the technical control (left panel) and post-printing phase (right panel). From top to bottom, micrographs show viable cells (green stain- FITC filter), dead cells (red staining-TRITC filter) and a merged view combining both viable and dead cells (FITC+TRITC filters). Scale bar:100 μm.

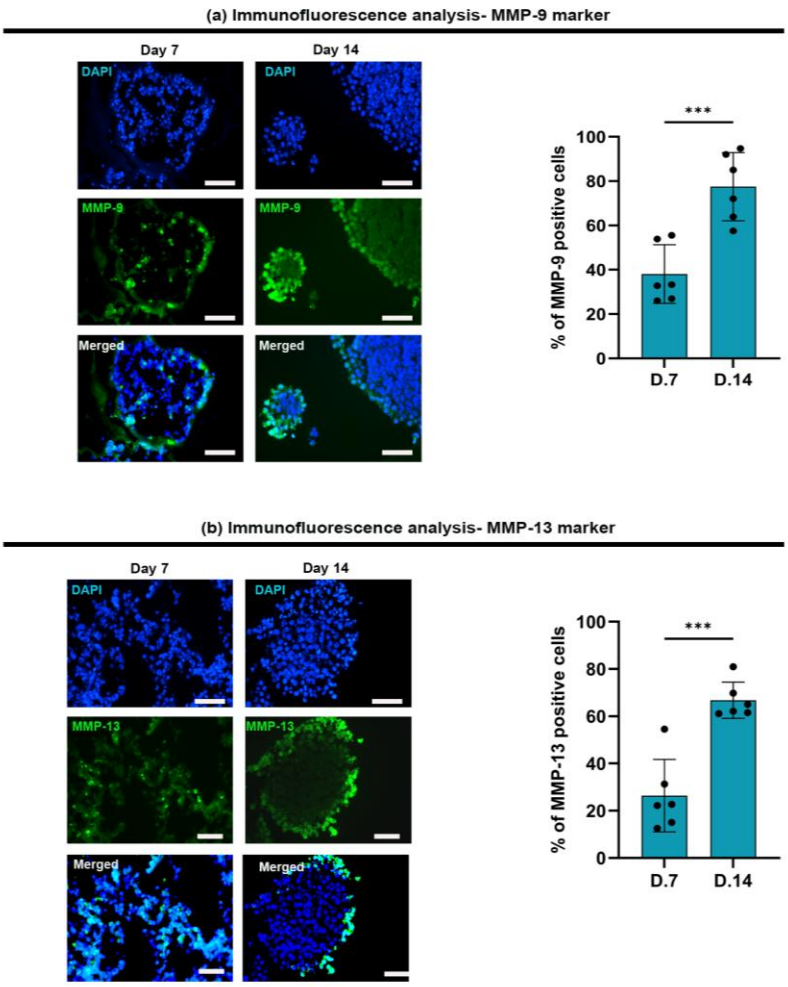


Figure S3. Immunofluorescence staining of MMP-9 and MMP-13 in the 3D model. Representative micrographs showing MMP-9 (a) and MMP-13 (b) in the control group at day 7 and 14 post-printing. Merged images display DAPI staining (blue) for nuclei, and FITC staining (green) for MMP-9 and MMP-13 (scale bar:40 µm). Graphical representation demonstrating the % expression of MMP-9 and MMP-13. Statistical comparison between days 7 and 14 for each marker was performed using the Student's t-test.