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Effects of mechanical forces on the cell behavior of desmoid-type fibromatosis

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We hypothesized that desmoid cells and tumors are affected by the mechanical forces, and investigated the effects of mechanical forces on the cell behaviors of desmoid tumors. Uni-axial sinusoidal stretches enhanced cell proliferation of desmoid cells, whereas did not of control fibroblast cells. Nuclear accumulation of β -catenin was not increased in proliferated desmoid cells under uni-axial stretch.