This abstract was submitted to the DTRF Research Workshop in September, 2017.

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

Yoshiro Nishida, MD, PhD, Associate Professor, Nagoya University Graduate School of Medicine.

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.