

Table S1. Quantitative morphological analysis of the % of cells associated with fibrillary arrangements

The cells from altogether 16 samples were counted on the red channel of microscope (viewing actin cytoskeleton) and the percentage of cells that associate with fibrillary arrangements on the underlining FITC-collagen substrate (viewed on the green channel of microscope) was evaluated.

| Samples | Number of samples | Average cells per sample | Average cells with fibrillary arrangements | Percentage cells with fibrillary arrangements | P |
|----------------|--------------------------|---------------------------------|---|--|----------|
| | | Mean\pm SD | Mean\pm SD | Mean\pm SD | |
| FITC-Col I | 6 | 6.00 \pm 1.915 | 4.83 \pm 0.98 | 85.00 \pm 18.03 % | <<0.05 |
| FITC-Col I-OXI | 10 | 6.00 \pm 1.09 | 0.67 \pm 0.64 | 11.22 \pm 11.25 % | |

*The data were obtained from four separate experiments