SUPPLEMENTAL FIGURE LEGENDS

FIGURE S1: Fluoroprotein-tagged IL-33 exhibits static nuclear localization. **A.** Sub-cellular localization of fluoroprotein-tagged IL-33 in resting cells. IL-33 was tagged either at its amino or carboxy terminus with mCherry (mCherry-IL-33) or GFP (IL-33-GFP) respectively. A fibroblast cell line stably expressing either fusion protein displayed solely nuclear fluorescence. **B.** Fluoroprotein-tagged IL-33 nuclear localization is unchanged by cellular deformation. mCherry-IL-33 expressing fibroblasts were subjected to 1Hz cyclic 8% biaxial stretch for four hours. This stimulus failed to alter the nuclear localization of the fusion protein. Scale bars represent 10μm.

VIDEO V1: Timelapse microscopy of dynamic IL-33 nucleo-cytoplasmic flux**.** A fibroblast cell line stably expressing tetracysteine-tagged IL-33 were pulsed with a tetracysteine-avid fluorescent dye and imaged in time-lapse fashion by epifluorescent microscopy. Images were acquired every ten minutes after pulse and assembled into a movie. Over the ninety minutes depicted in the movie, and initial dominant nuclear fluorescence can be seen evolving into a spiculated cytoplasmic pattern.