세미나 초록

발표주제	Fibroblast Activation in Soft Matrix and Its Clinical Implication
발표내용	Myofibroblasts are the major cell type that is responsible for increase in the mechanical stiffness in fibrotic tissues. It has well documented that the TGF-β/Smad axis is required for myofibroblasts differentiation under the rigid substrate condition. However, the mechanism driving myofibroblasts differentiation in soft substrates remains unknown. In this seminar, I would like to present some of the latest results of a recent studies on new signaling pathway involved in the initial differentiation of fibroblasts using a soft matrix that mimics the in vivo tissue environment in which fibrboblasts exist. The results of these studies demonstrate that microtubule acetylation and its related cellular events are essential for fibroblasts activation in soft matrix condition. furthermore the quantitative inhibition of microtubule acetylation may be suggested as a new target for overcoming fibrotic diseases including malignant cancers.