Tetsuya Nakamoto, M.D., Ph.D.
Department of Medicine and Rheumatology
COE Research Associate Professor

Main Research Projects
1. Roles of CIZ in bone
2. Transcriptional targets of CIZ

Abstract
The nucleocytoplasmic shuttling protein CIZ regulates the transcription of extracellular matrix-related genes. In CIZ-deficient mice, increased bone mass and resistance to unloading-induced bone loss were observed. These phenotypes were caused by enhanced bone formation by osteoblasts. I expect that the other osteoblast functions are also enhanced in CIZ-deficient mice.

At the same time, I search for the targets of CIZ protein, using transcriptome analysis and ChIP assay. Based on these results, I am looking for new genes that are involved in bone formation.

Papers