

**Abstract:**

This research describes the structure and function of nuclear domains called Cajal bodies (CB). CB contain proteins and factors involved in assembly and modification of snRNPs. These bodies are found in vertebrates and invertebrates and even plants. Not all cell types contain CB. Their number and size depends on the transcription activity of cell and cell cycle phase. This paper discusses the factors that affect the CB formation. One of the most important factors is the level of snRNPs and transcription activity. Recently shows that an important role in CB formation has coilin and other components phosphorylation. Other works show the influence of the environment. There is also discussion regulation of CB biogenesis, which is not yet fully understood.

**Key words:** Cajal bodies, coilin, cell nucleus, snRNP, pre-mRNA splicing, transcription