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Nuclear speckle periphery organizes stable intron-retained RNAs into a distinct nuclear retention compartment

Intron retention (IR) is an important regulator of RNA fate, yet its spatial and temporal organization in human cells remains poorly understood. Here, we investigate the dynamics, localization, and regulation of intron-retained RNAs in pluripotent stem cells using compartment-resolved transcriptional shutdown, sequence-based modeling, and advanced RNA imaging. We focus on the relationship between IR, nuclear speckles, RNA stability, and cell-cycle-dependent RNA processing.

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