

RNA

A PUBLICATION OF THE RNA SOCIETY

VOL. 31, NO. 4



APRIL 2025

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*Cover Illustration: Cryo-EM structure of the pre-B complex (PDB id: 8QP8; Zhang Z, Kumar V, Dybkov O, Will CL, Zhong J, Ludwig SE, Urlaub H, Kastner B, Stark H, Lührmann R. 2024. Structural insights into the cross-exon to cross-intron spliceosome switch. Nature **630**: 1012–1019). The pre-B complex is thought to be critical in the regulation of splicing reactions. Its structure suggests how the cross-exon and cross-intron spliceosome assembly pathways converge. The U4, U5, and U6 snRNA backbones are depicted respectively by blue, green, and red ribbons, with bases and Watson-Crick base pairs shown as color-coded blocks: A/A-U in red, C/C-G in yellow, G/G-C in green, U/U-A in cyan; the proteins are represented by gold ribbons. Cover image provided by X3DNA-DSSR, an NIGMS National Resource for structural bioinformatics of nucleic acids (R24GM153869; skmatics.x3dna.org). Image generated using DSSR and PyMOL (Lu XJ. 2020. Nucleic Acids Res **48**: e74).*

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