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Three-dimensional structure of a yeast
spliceosome. In eukaryotes, genetic
information stored in DNA is transcribed
into precursor messenger RNA (pre-mRNA),
which contains protein-coding exons
interspersed with noncoding introns.
The splicing of pre-mRNA, which entails
removal of introns and covalent linkage of
exons, is mediated by a multicomponent
ribonucleoprotein complex—the
spliceosome. See pages 1182 and 1191.
Illustration: C. Bickel/Science;
structure based on the cryo-EM map of a
yeast spliceosome (EMDB ID EMD-6413)
Science 349 (6253), 1145-1254.