

NMR spectroscopy of RNA G-quadruplexes

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As one kind of non-canonical structures of nucleic acid, G-quadruplexes (G4) exist universally in the genome of different organisms and in humans. G4 are supposed to play crucial regulatory roles in gene replication, translation and expression. Therefore, G4s are handled as a promising target for chemotherapy. To date, most studies concentrated on DNA G4s, while the understanding of RNA G4s is far from comprehensive. Here I will present our recent results on investigating structural details of RNA G4s by NMR spectroscopy.

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