

RNA

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Cover Illustration: tRNA synthetase viral tRNA-mimic complex (PDB id: 7SC6; Bonilla SL, Sherlock ME, MacFadden A, Kieft JS. 2021. A viral RNA hijacks host machinery using dynamic conformational changes of a tRNA-like structure. *Science* **374**: 955–960). The cryo-EM structure of the viral tRNA-mimic from brome mosaic virus bound to the Tyrosyl-tRNA synthetase (TyrRS) of the virus host (*Phaseolus vulgaris*) is shown. The RNA undergoes large conformational rearrangements to bind TyrRS in a form that differs substantially from that of tRNA. Viral tRNA-mimic backbone is displayed as a red ribbon, with block bases in NDB colors: A—red, C—yellow, G—green, U—cyan; TyrRS enzyme is displayed as a gold ribbon. Cover image provided by the Nucleic Acid Database (NDB) /Nucleic Acid Knowledgebase (NAKB; nakkb.org). Image generated using DSSR and PyMOL (Lu XJ. 2020. *Nucleic Acids Res* **48**: e74)

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^{OA}Open Access paper