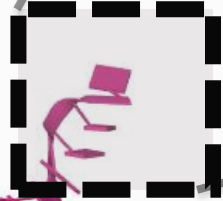
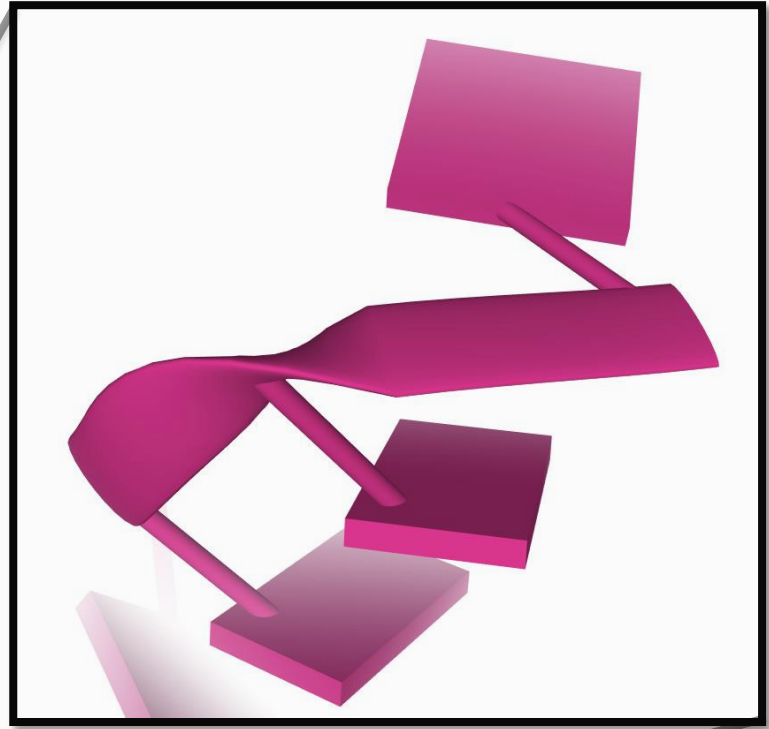




(b)

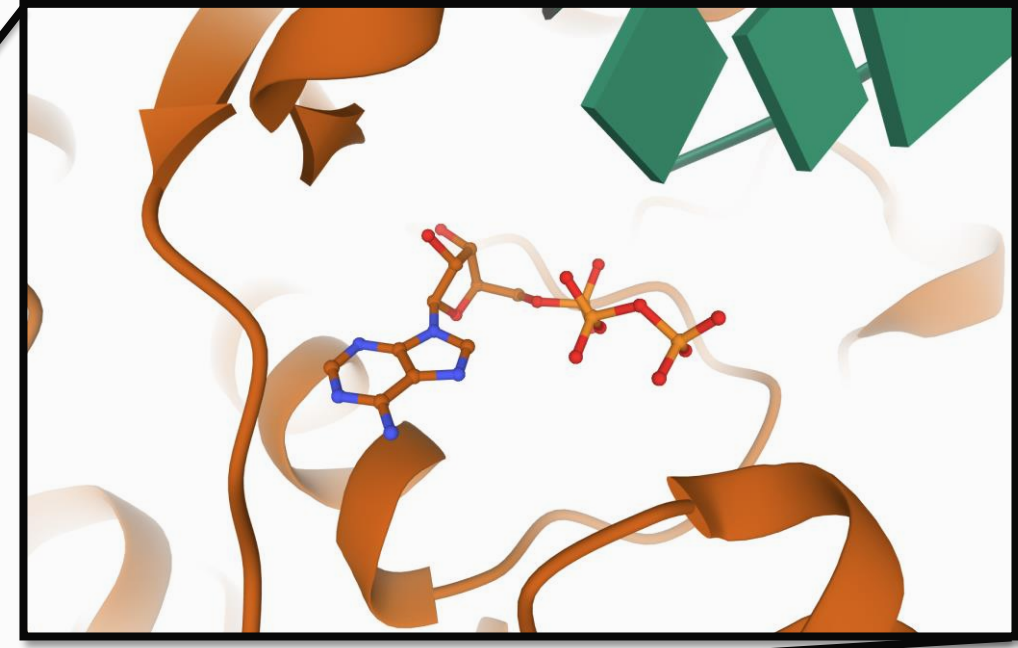
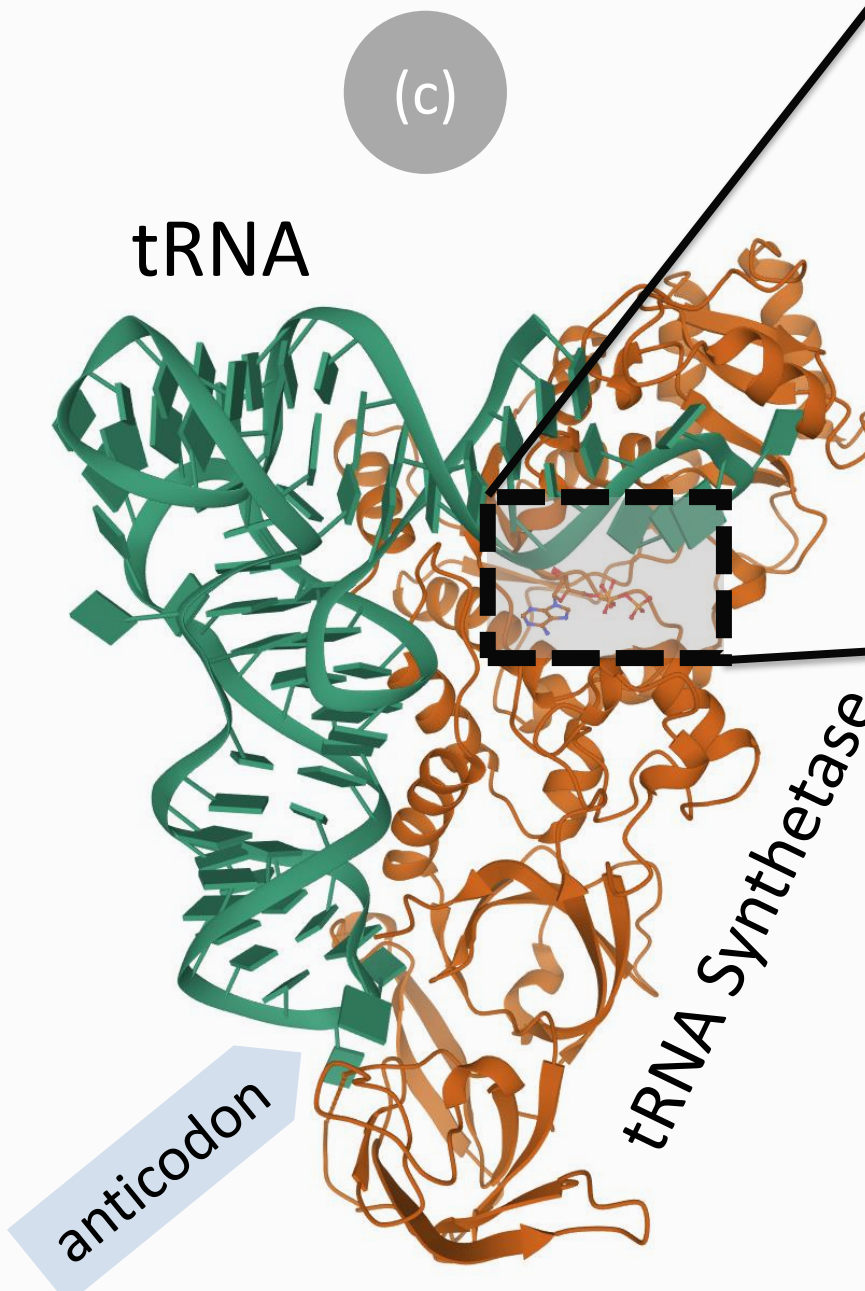


tRNA

tRNA

tRNA

Ribosome

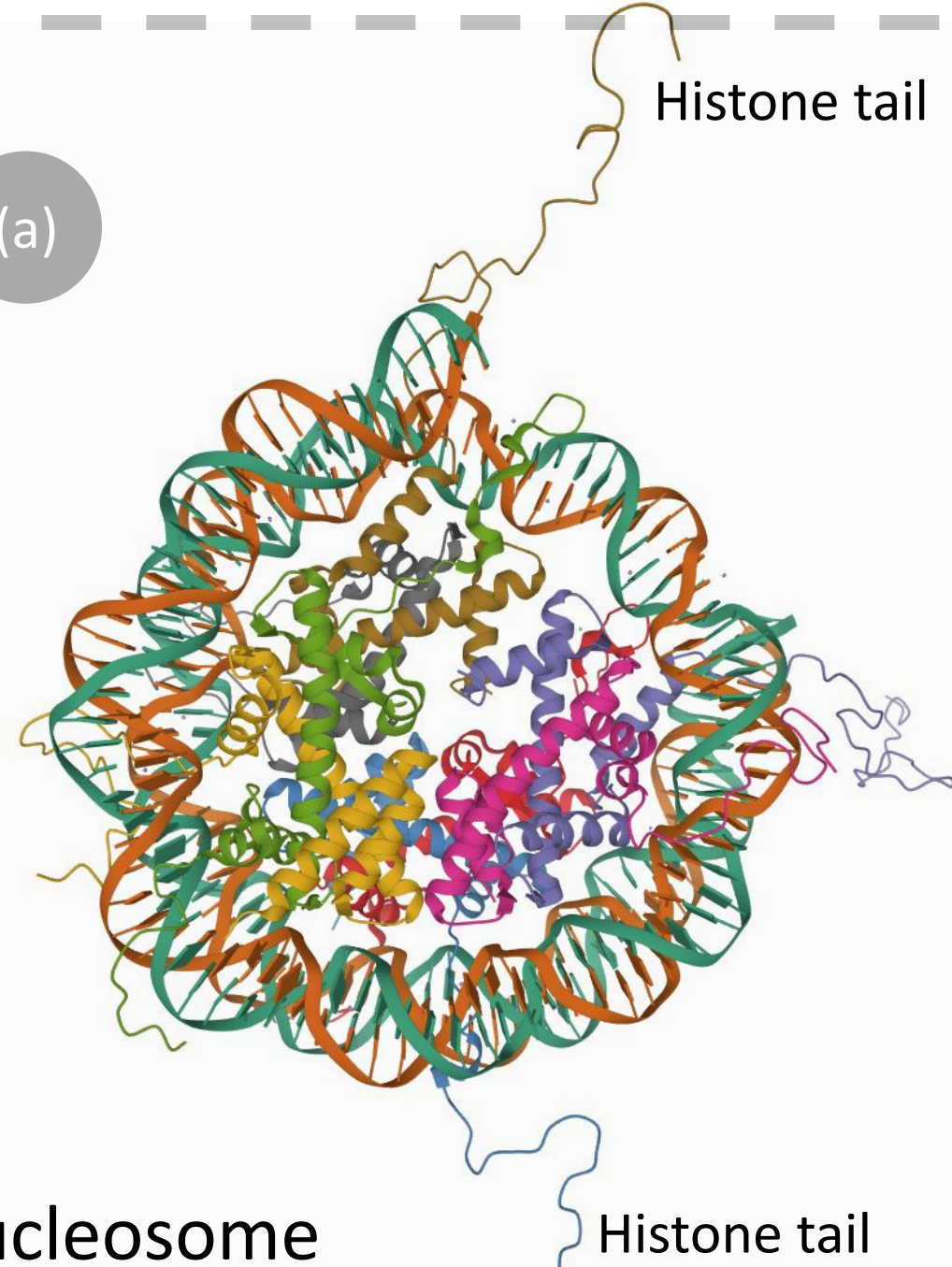


GGGGUAUCGCCAAGCGG
 UAAGGCACCGGAUUCUG
 AUUCCGGCAUUCCGAGG
 UUCGAAUCCUCGUACCC
 CAGCCA

Histone tail

Histone tail

(a)

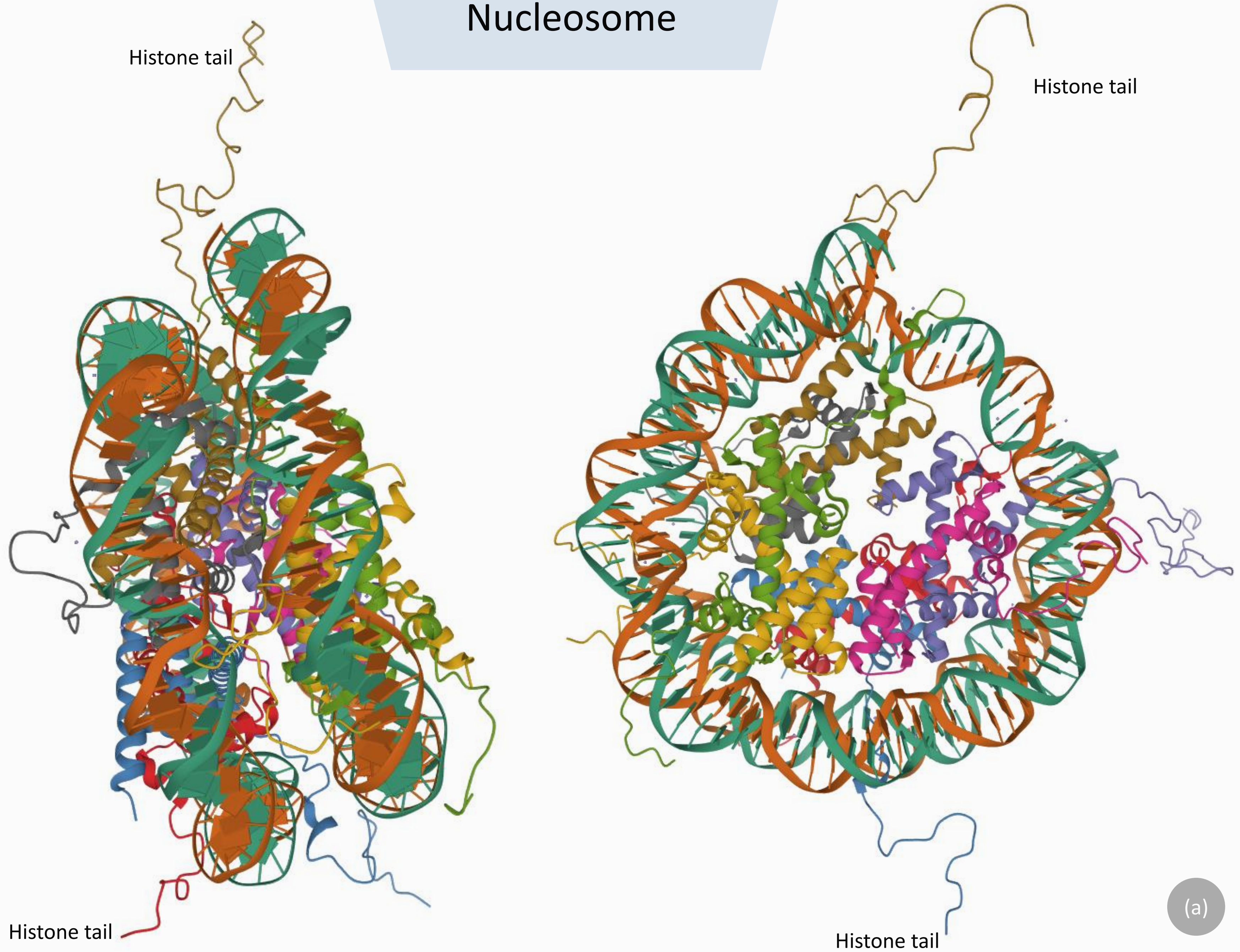


Histone tail

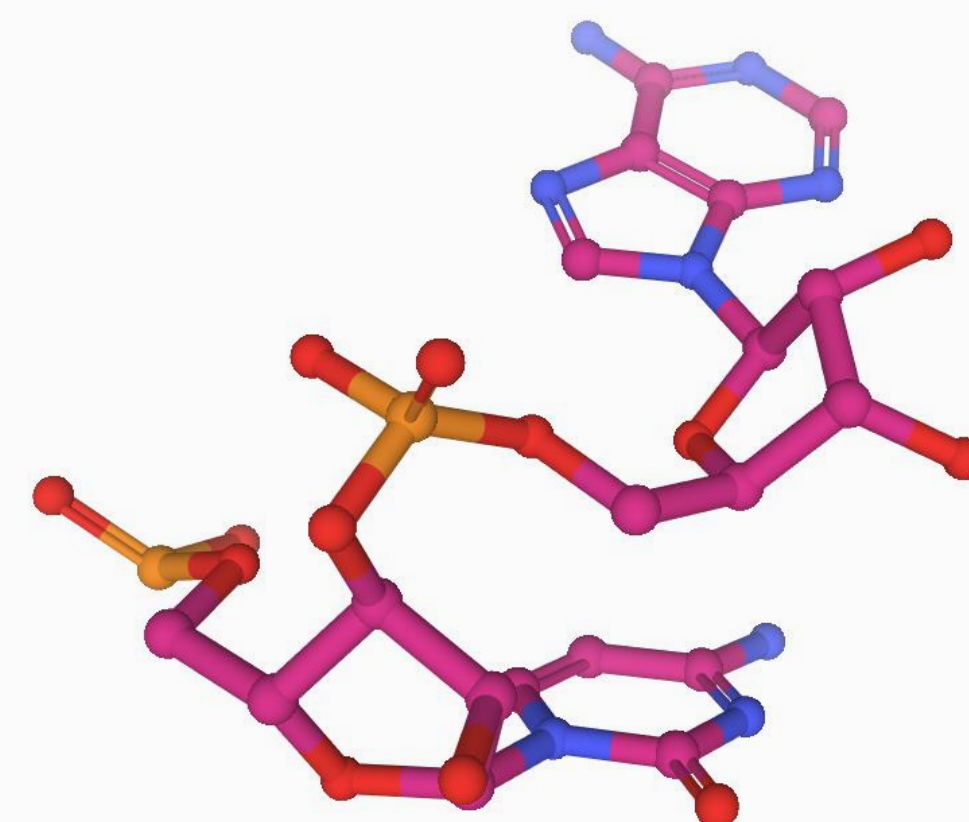
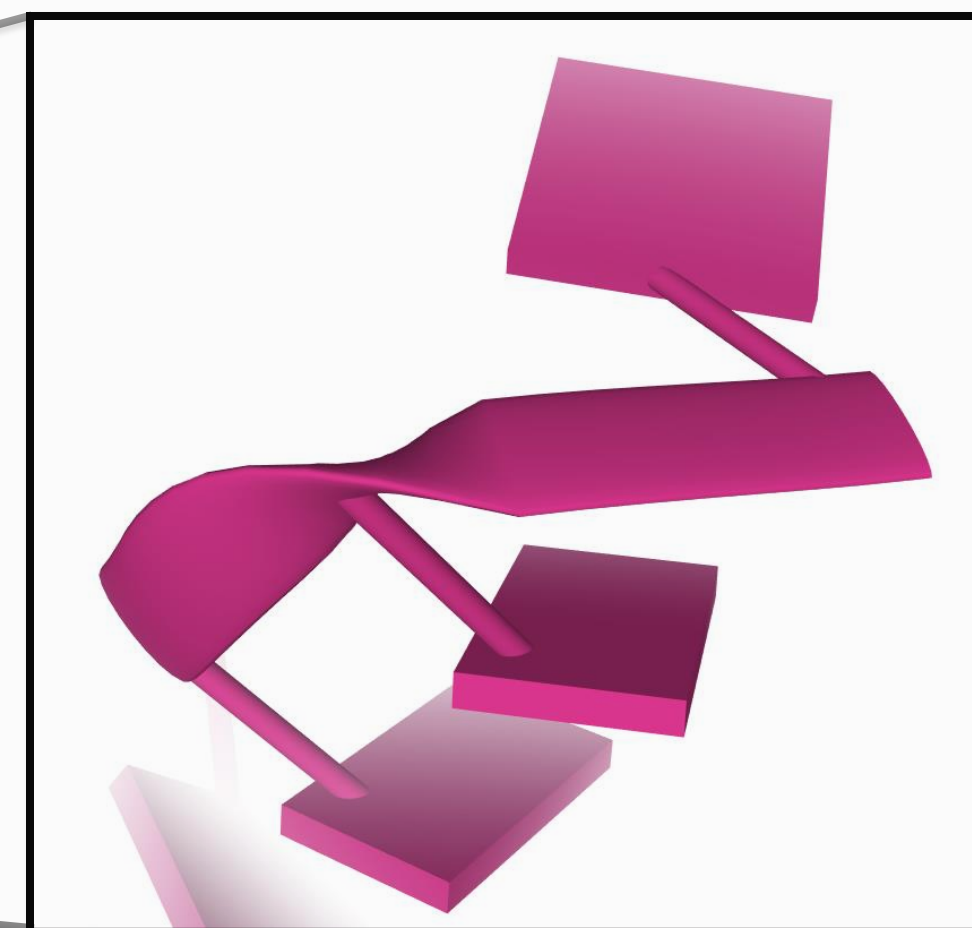
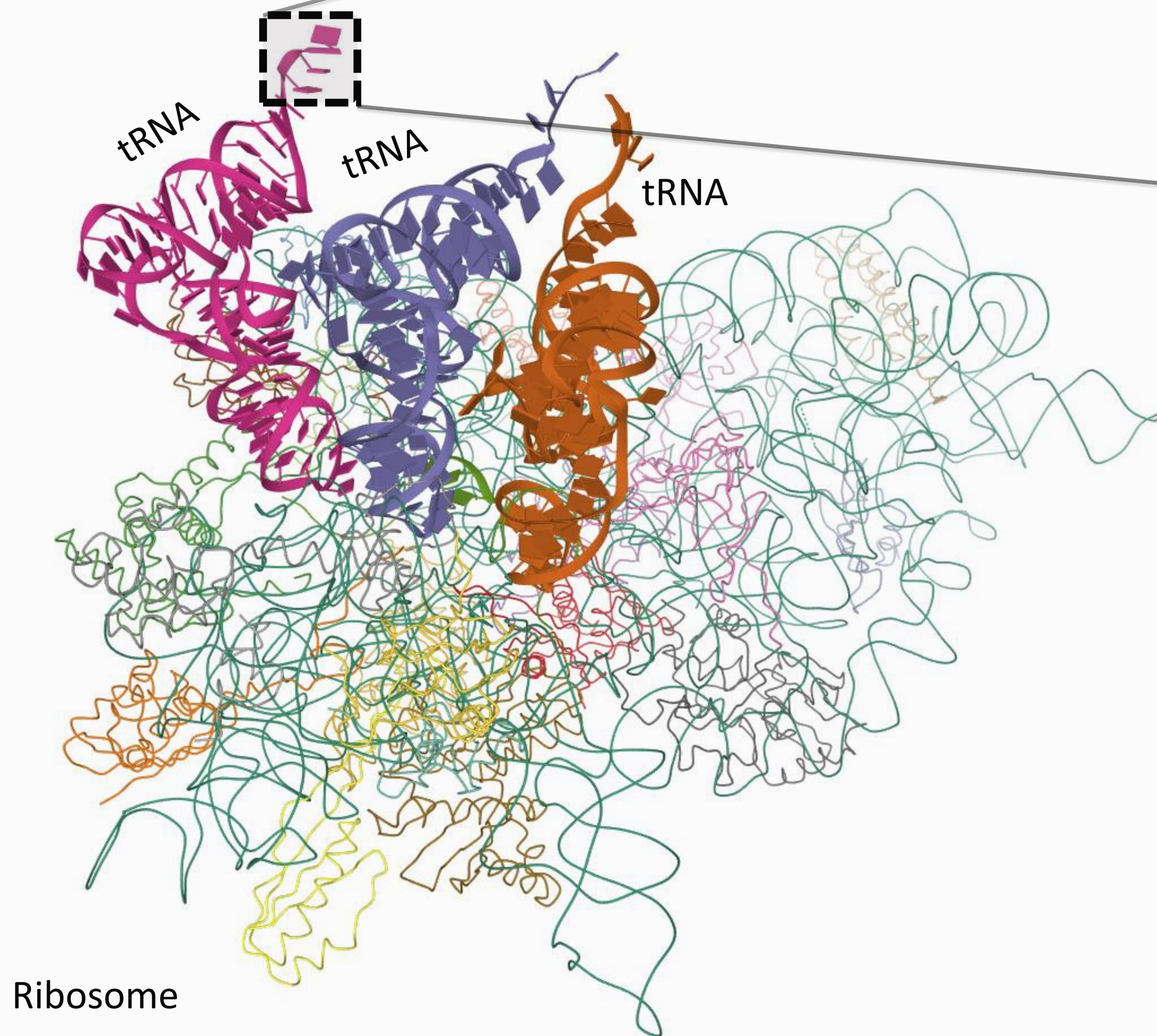
Nucleosome

Histone tail

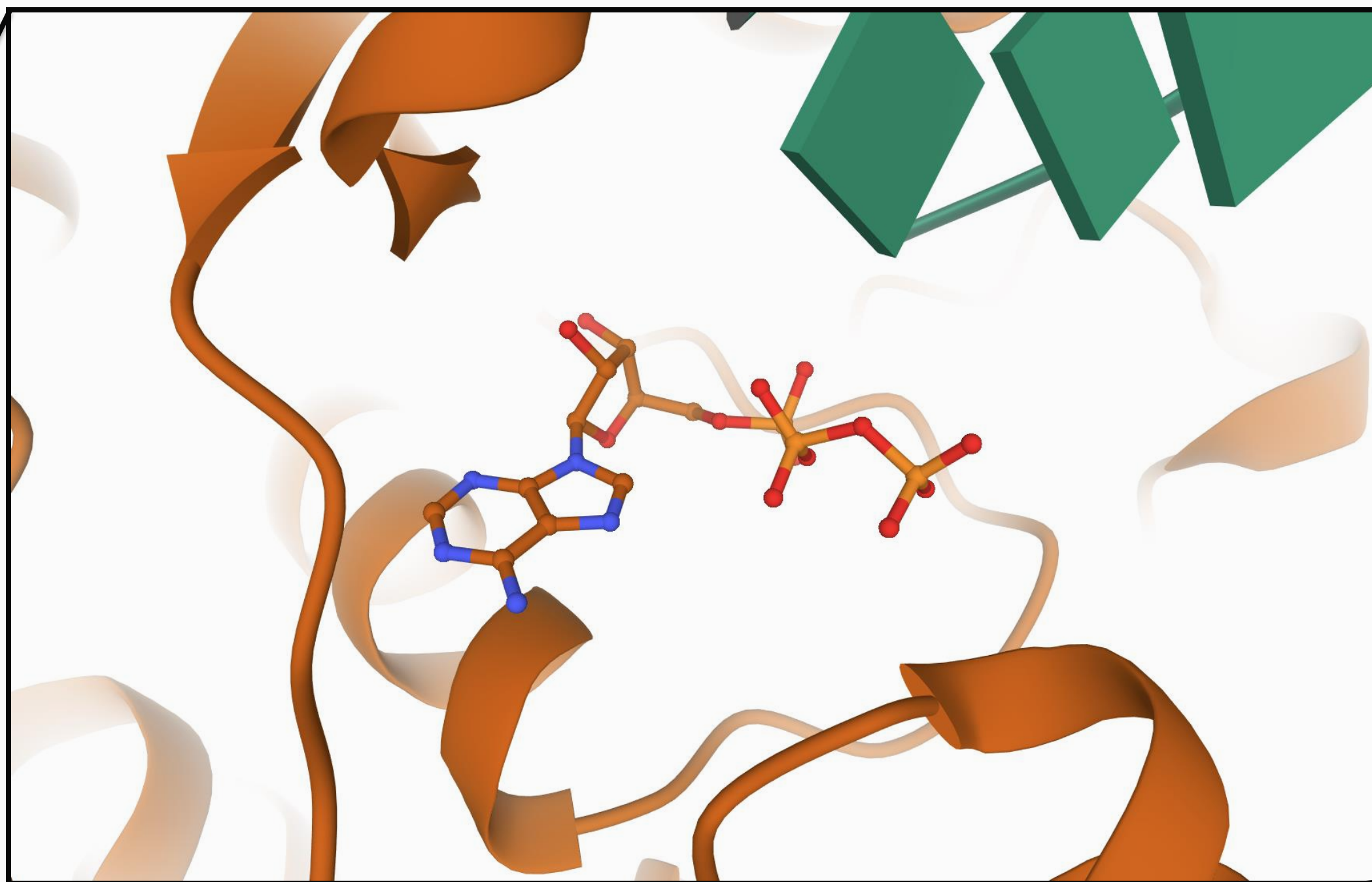
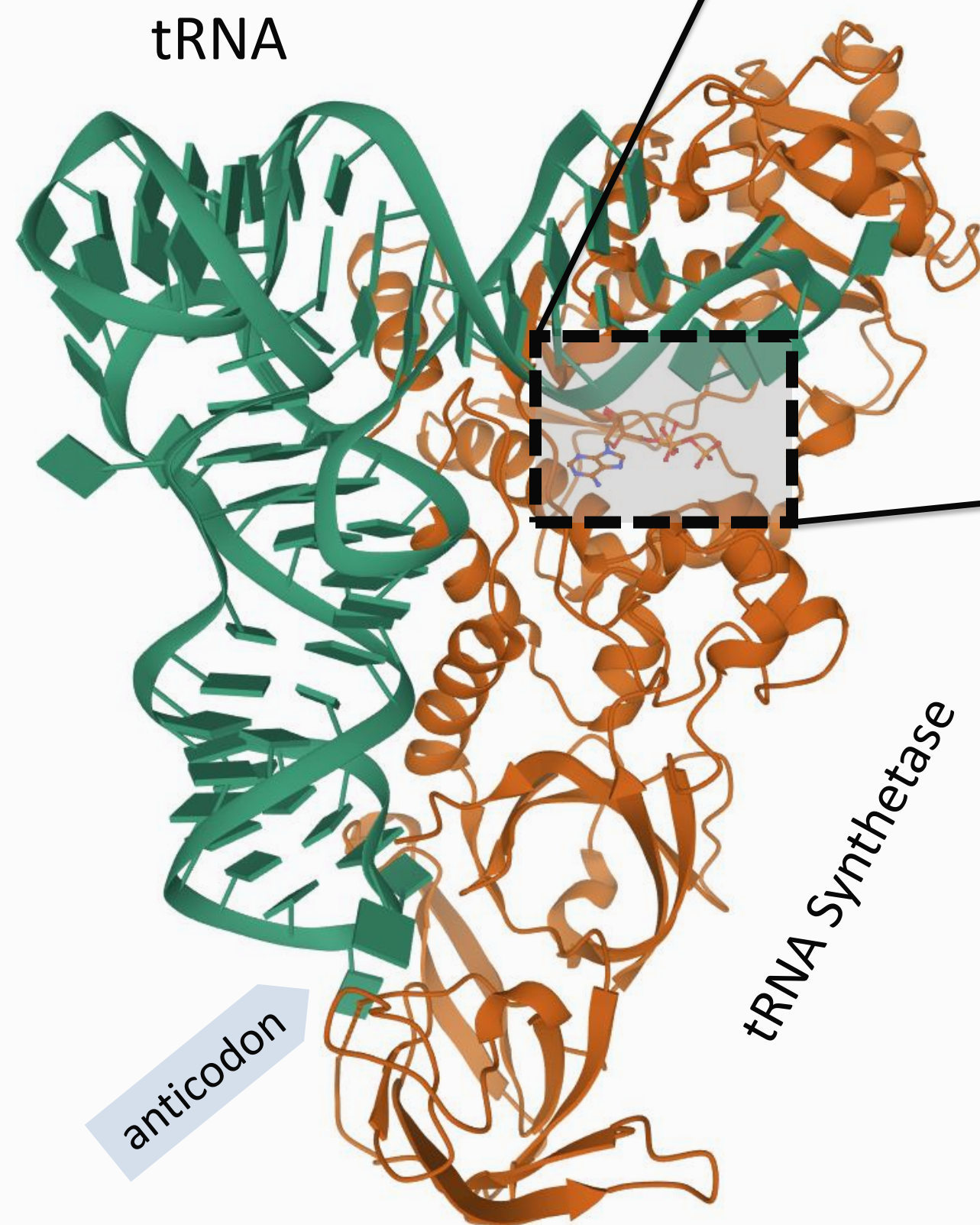
Nucleosome



(b)



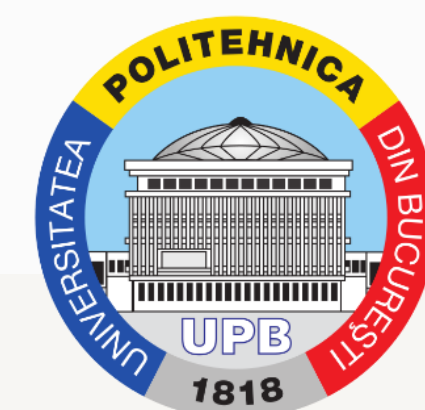
(c)



GGGGUAUCGCCAAGCGGUAAGGCAC
CGGAUUCUGAUUCCGGCAUUCGAG
GUUCGAAUCCUCGUACCCCAGCCA

Molecular representations

Molecular representations. (a) Shows the structure of the nucleosome core particle [52, 53]. (b) Shows the path of mRNA through the ribosome by pointing out the collinearity between the tRNA anticodons [54, 53]. The window highlights the binding region between an amino acid and a tRNA. (c) Shows the Escherichia coli glutamyl transfer RNA synthetase complexed with transfer RNA(Gln) and ATP [55, 53]. The tRNA sequence is presented next to this ribonucleoprotein particle. The last letters in the sequence correspond in reverse order to the region in the tRNA highlighted by the dotted line window (i.e. “ACCG ...”). The position of the tRNA anticodon is also highlighted here..



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