

BCH 751 - Section 2 (Brown) - RNA Structure Prediction

Homework for lecture 2 (August 31)

Predict the secondary structure of the following RNA sequence:

```
GGGCUCAUAGCUCAGCGGUAGAGUGCCUCCCUUGCAAGGAGGAUGCCC  
UGGGUUCGAAUCCCAGUGAGUCCA
```

... using the mfold server at:

<http://www.bioinfo.rpi.edu/applications/mfold/old/rna/>

,,, leaving all of the parameters at their default values.

Please turn in on Wednesday, Sept 7 (in 1 week):

- 1) The energy table plot for this RNA sequence
- 2) All of the secondary structures predicted (up to 12)
- 3) A dotplot comparison of all of the predicted structures

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```
GCCGAGGUGGCUUAGCUGGUUUAUAGCGCCCGGCUCAUACCCGGGAGGUCGAG  
GGUUCGAAUCCCUCCCUCGGCA
```

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AGCGGGGUGGGGUAGUCGGUGAUCCCGGCGGGCUCUAUAACCCGCAGAUCCGU
GGUUCAAAUCCACGCCCCGCUA
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GUUCAAUCCUGCUCCUGCA
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GGUUCGAAUCCCUCCCCCGCA
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GGUUCAAAUCCCAUCGGGCCCA
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