

Supplemental Tables and Figures

Overview of tRNA modifications in chloroplasts

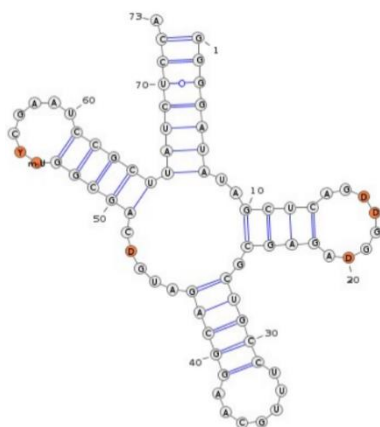
Fages-Lartaud et al. 2022

Supplemental Table S1: List of tRNAs found in the chloroplast of *Chlamydomonas reinhardtii*..... p2

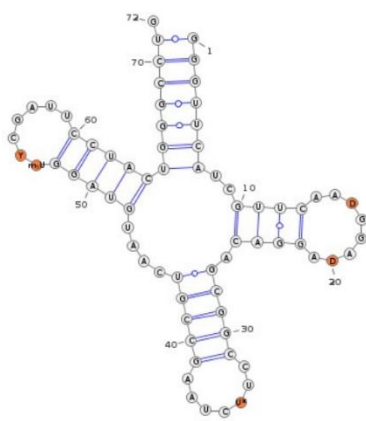
Supplemental Figure S1: Secondary structure and potential modifications of tRNAs from the chloroplast of *Chlamydomonas reinhardtii*..... p3-5

Supplemental Table S1: List of tRNAs found in the chloroplast of *Chlamydomonas reinhardtii*.(source: <http://plantrna.ibmp.cnrs.fr/plantrna>)

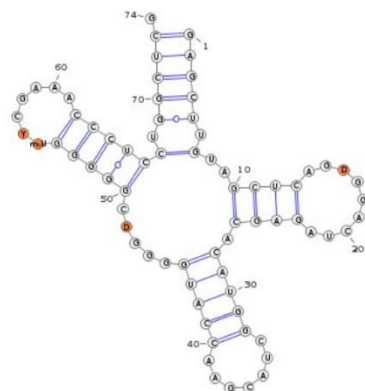
tRNA-Ala (GCA)	GGGGATATAGCTCAGTTGGTAGAGCGCTGCCTTTGCAAGGCAGATGTCAGCGGTTCAATCCGCTTATCTCCACCA
tRNA-Arg (AGA)	GGGTTTCATCGTTCAATGGATAGGACAGCGGCCTTCTAAGCCGTCAATGTAGGTTGATTCTACTGGGCCTGCCA
tRNA-Arg (CGT)	GAGCTTGTAGCTCAGTGGACTAGAGCACATGGCTACGAACCATGGGGTCGGGGGTTGAAACCTCCTGGCTCGCCA
tRNA-Asn (AAC)	TCTTCAGTAGCTCAGTGGTAGAGCGATCGGCTGTAAACCGATTGGTCGTAGGTTCAAGTCTACCTGGGAGTCCA
tRNA-Asp (GAC)	GGGATTGTAGTTCAATTGGTTAGAGCACCGCCTGTCACGGCGGAAGTTGCGGGTTCGAGTCCCGTCAATCCCGCCA
tRNA-Cys (TGC)	GGCGGCATAGCAAGCGGTAAGGCCGTGGATTGCAAATCTCTATTCCCCAGTTCAAATCTGGGTGCCGCCTCCA
tRNA-Gln (CAA)	TGGGGCGTCGCCAAGTGGTAAGGCTGCGGTTTTTGGTACCGCCATTCGCAGGTTCAATCCTTCCGCCCCAGCCA
tRNA-Glu (GAA)	GCCCCATCGTCTAGAGGCCTAGGACACCTCCCTTTCACGGAGAAAACGCGGATTCAATTCGCTGGGGGTACCA
tRNA-Gly (GGC)	GCGGACATAGCTCAATGGTAGAGTATTTCTTGCCAAGGAAAATGTTGCGGGTTCGACTCCCGTTGTCCGCTCCA
tRNA-Gly (GGA)	GCGGATGTAACCTCAATCGGTAGAGTGCGATCCTTCCAAGTTCGAGGTTGTGGGTTGAGTCCCATCATCCGCTCCA
tRNA-His (CAC)	GGCGGGCGTAGCCAAGTGGTAAGGCAGTGGATTGTGACTCCACTATTCGCGGGTTCGAACCCCGTCGTTGCCCCA
tRNA-Ile (ATA)	GCACTGTTGGCCGAGCGGATGAGGCAAACGACTCATAATCGTTATAAGGTAGGTTCAACTCCTATACGGTGCACCA
tRNA-Ile (ATC)	GGGCTATTAGCTCAGTTGGTTAGAGCGTTGCTTTGATAAGGCAAAAGTCGAAAGTTCAAATCTTTCATAGCCCACCA
tRNA-Leu (TTA)	GGGGATATGGCGGAATGGTAGACGCTACGGACTTAAATCCGTTCTTGTGCGAACAAGGTGAGGGTTCAAGTCCCTC TTTCCCCACCA
tRNA-Leu (CTA)	GCCTTCGTGATGGAACCTGGTAGACATCCTGGTTTTAGGAACCAAGTCTGCTGAAAGGCGTGCCGGTTCAAATCCGGCCGAA GGCACCA
tRNA-Lys (TTT)	GGGTTGCTAACTCAATGGTAGAGTACTCGGCTTTTAACCGATAAGTTCTGGGTTGAGTCCCAGGTAACCCACCA
tRNA-Met- e (ATG)	GCCTGCTTAGCTCAGTTGGTTAGAGCGTCCGTTTCATAAGCTGATTGTCACTAGTTCAAATCTAGTAGCAGGCACCA
tRNA-Met- i (ATG)	AGCAGGGTAGAGCAGTCTGGTAGCTCGTGGGGCTCATAATCCTGAGGTCGCAGGTTCAAATCCTGCCCTGCCACCA
tRNA-Phe (TTC)	GCCGGGATAGCTCAGTTGGTAGAGCAAAGCGTTGAAAATGCTTGGGTCACCGGTTCAAGTCCGGTTCCTGGCACCA
tRNA-Pro (CCA)	CGGGATGTAGCGCCAGCTTGGTAGCGCATGTGCTTTGGGAGCATAGGGTCGCAGGTTCAATCCTGTCATCCCGACCA
tRNA-Ser (TCA)	GGAAAGGTGGCAGAGTGGTTAATTGCACCAATTTTGAAAATTGGCGTGGCTTCGCGGTCACCGAGGGTTCAATCCCT CCCTTTCCGCCA
tRNA-Ser (AGC)	GGAGAGATGGCTGAGTGGTCGAAAGCGGCTGATTGCTAATCAGTTTAAGTGCGACTTGCGCTTACGAGGGTTCAAT CCCTCTCTCCGCCA
tRNA-Thr (ACA)	GCTTGCTTAACTCAATCGGTAGAGTATCGGTTTTGTAAACCGAAGGTTATCGGTTCAACTCCGATAGCAAGCTCCA
tRNA-Trp (TGG)	ACGTCCTTAGTTCAGTCGGTAGAACGCAGGTTTCCAAAACCTGATGTCGTGGGTTCAATTCCTACAGGGCGTGCCA
tRNA-Tyr (TAC)	GGGTCGATGCCCGAGTGGTTAATGGGGGCGGATTGTAAATCCGTTGACTTAGTCTGCGTTGGTTCAATCCGACTCGA CCCACCA
tRNA-Val (GTA)	AGGCCCATAACTCAGTCGGTAGAGTGATTGCCTTACAAGCAATAGGTCATCGGTTCAAGTCCGGTTGGGCCTACCA



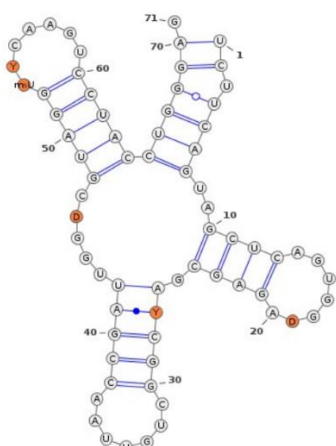
1.Ala_TGC



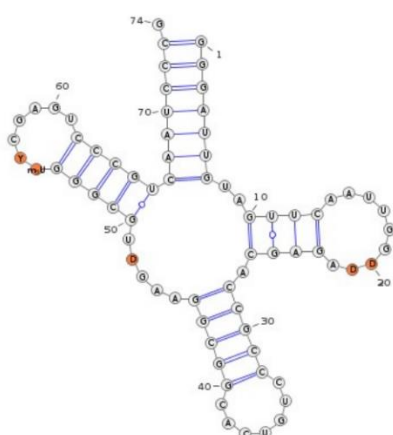
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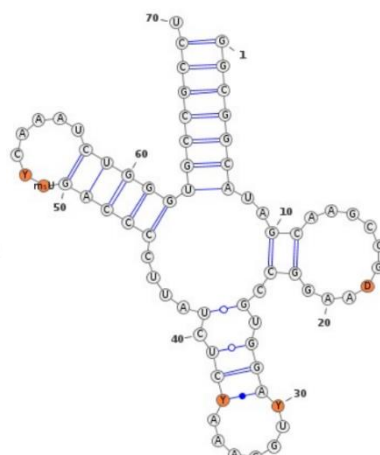
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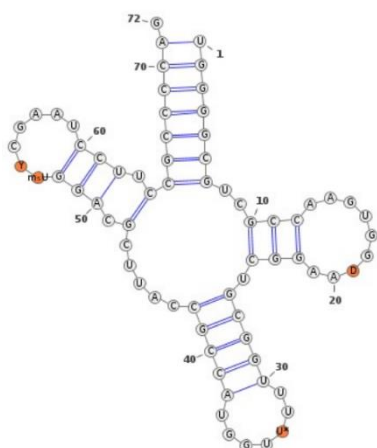
4.Asn_GTT



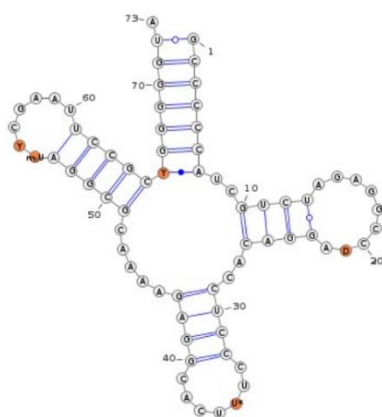
5.Asp_GTC



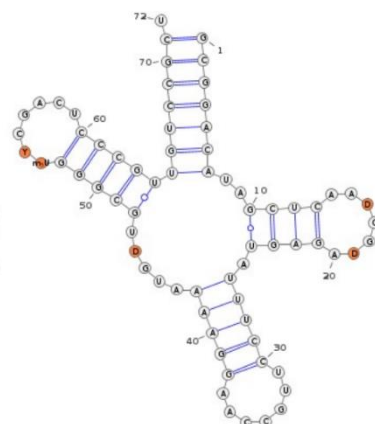
6.Cys_GCA



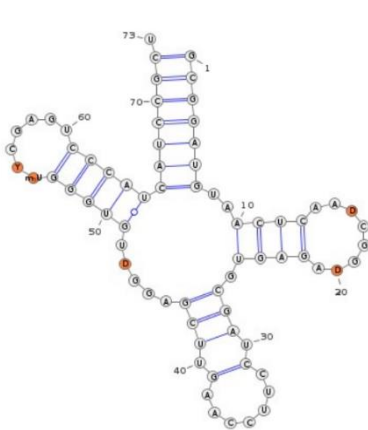
7.Gln_TTG



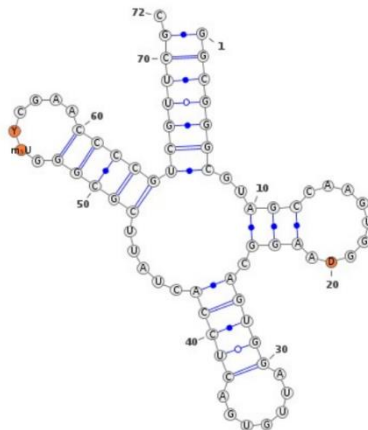
8.Glu_TTC



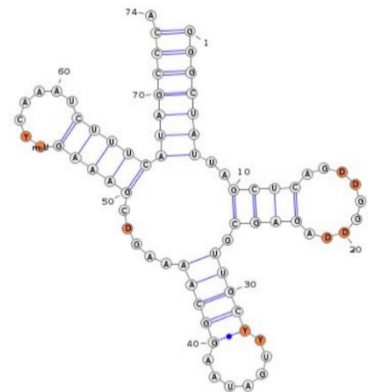
9.Gly_GCC



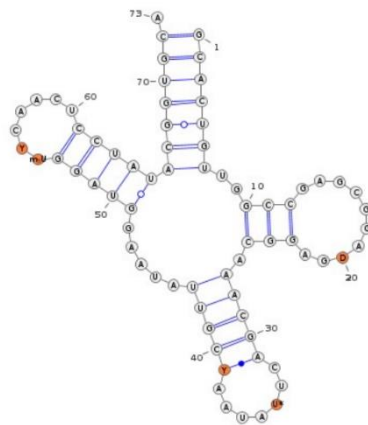
10.Gly_TCC



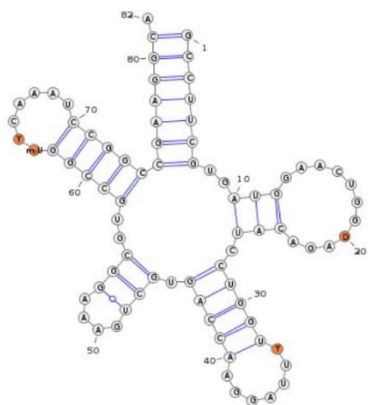
11.His_GTG



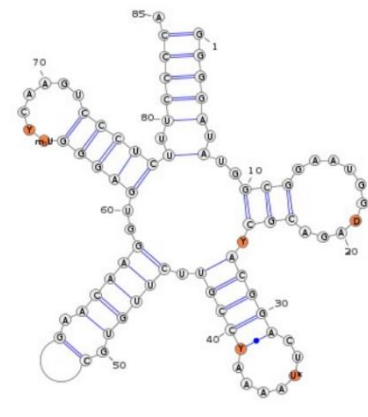
13.Ile_GAT



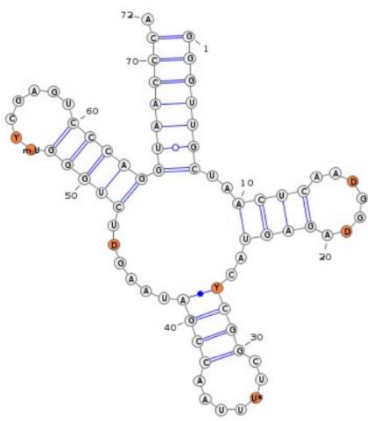
1.Ile_TAT



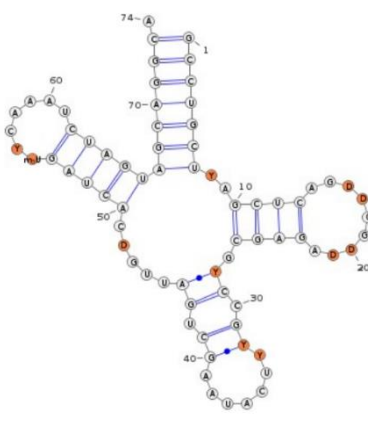
15.Leu_TAG



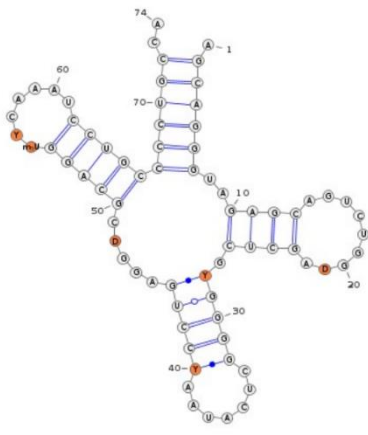
14.Leu_TAA



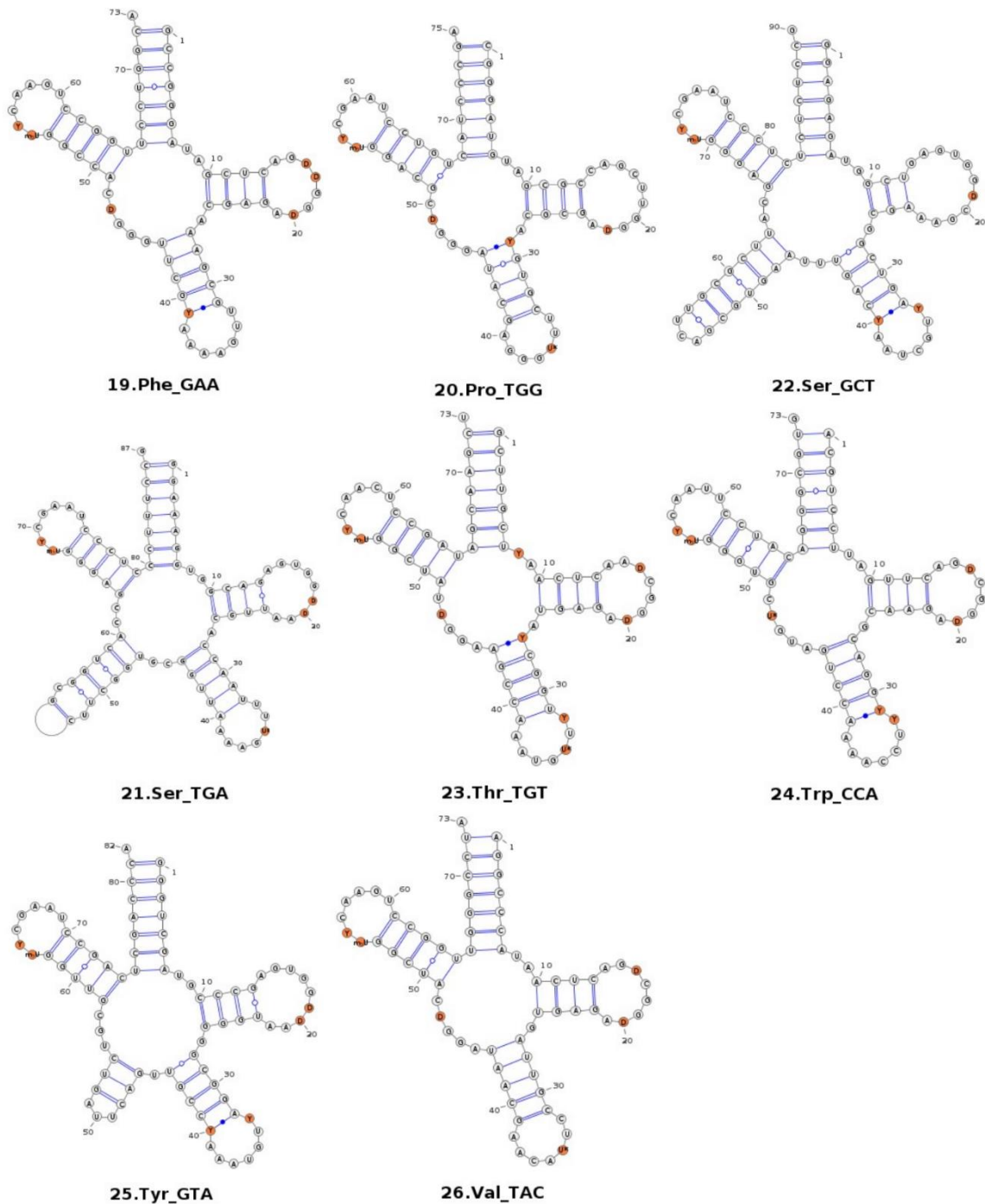
16.Lys_TTT



17.Met_CAT_e



18.Met_CAT_i



Supplemental Figure S1: Secondary structure and potential modifications of tRNAs from the chloroplast of *Chlamydomonas reinhardtii*. The anticodon of the tRNAs appears next to the encoded amino acid below each structures. Modifications are highlighted in orange and changed to their potential new nucleoside. The outcome of modified bases might contain errors due to the computation program used. Computed with tRNAmoD (<https://webs.iitd.edu.in/raghava/trnamod/index.html>).