## Message from Max Delbruck to George Beadle

Transcribe the DNA code (given below) into the m-RNA codon. Then, translate the m-RNA codon into words (instead of proteins). NOTE: DNA never leaves the nucleus; only m-RNA, after copying the DNA code, leaves the nucleus and goes to the ribosome. The DNA is shown here only to make the copying process (transcription) easier.

DNA Sequence: ATG AGG TTC AAA TTA CCA GTT CTG CGC TCC TTT CGA TTC TTT AGG

**1**

MRNA Sequence:

Amino Acid Sequence:

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DNA Sequence: CTA CTG ATC TTC ATG AAA TCC TTA CCA GTT TTC CGT TTT ATG TTC GCG AGT AGG CTG TGG TTC

MRNA Sequence:

**2**

Amino Acid Sequence:

## Message from Max Delbruck to George Beadle

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DNA Sequence: CTG TAG CCA GTT TTC AGG CTG CGA CGA GCG TTC TTT GAG GCG CTG GAG TTC

MRNA Sequence:

**3**

Amino Acid Sequence:.

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## Message from Max Delbruck to George Beadle

Transcribe the DNA code (given below) into the m-RNA codon. Then, translate the m-RNA codon into words (instead of proteins). NOTE: DNA never leaves the nucleus; only m-RNA, after copying the DNA code, leaves the nucleus and goes to the ribosome. The DNA is shown here only to make the copying process (transcription) easier.

DNA Sequence: TTA CGT TTT GTC TAG TTC AAA CGT CGA AGC TTT GAC GTC CTG GCG GCG TTA CGT TTT GTC AGC TTT GAC AGG CGC TTC GCG GAG

**4**

MRNA Sequence:

Amino Acid Sequence:

# The Secret Code (m-RNA Codons)

UUU = A
UAC = B
AGG = C
GCU = D
AAG = E
CUC = F
GAU = G

CAA = H
GAC = I
CCC = J
AAU = K
CGC = L
AUC = M
GCA = N

AAA = O
UCA = P
GAG = Q
UCC = R
GCG = S
GGU = T
CUG = U

UAG = V
CAG = W
UGG = X
UCG = Y
ACC = Z
GGG = START

http://www.accessexcellence.org/AE/ATG/data/released/0532-KathyParis/code.html

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## Message from Max Delbruck to George Beadle- ANSWER KEY

Transcribe the DNA code (given below) into the m-RNA codon. Then, translate the m-RNA codon into words (instead of proteins). NOTE: DNA never leaves the nucleus; only m-RNA, after copying the DNA code, leaves the nucleus and goes to the ribosome. The DNA is shown here only to make the copying process (transcription) easier.

DNA Sequence: ATG AGG TTC AAA TTA CCA GTT CTG CGC TCC TTT CGA TTC TTT AGG

MRNA Sequence: UAC UCC AAG UUU AAU GGU CAA GAC GCG AGG AAA GCU AAG AAA UCC

Amino Acid Sequence: Break this code or

DNA Sequence: CTA CTG ATC TTC ATG AAA TCC TTA CCA GTT TTC CGT TTT ATG TTC GCG AGT AGG CTG TGG TTC

MRNA Sequence: GAU GAC UAG AAG UAC UUU AGG AAU GGU CAA AAG GCA AAA UAC AAG CGC UCA UCC GAC ACC AAG

Amino Acid Sequence: give back the nobel prize

DNA Sequence: CTG TAG CCA GTT TTC AGG CTG CGA CGA GCG TTC TTT GAG GCG CTG GAG TTC

MRNA Sequence: GAC AUC GGU CAA AAG UCC GAC GCU GCU CGC AAG AAA CUC CGC GAC CUC AAG

Amino Acid Sequence: I'm the riddle of life.

DNA Sequence: TTA CGT TTT GTC TAG TTC AAA CGT CGA AGC TTT GAC GTC CTG GCG GCG TTA CGT TTT GTC AGC TTT GAC AGG CGC TTC GCG GAG

MRNA Sequence: AAU GCA AAA CAG AUC AAG UUU GCA GCU UCG AAA CUG CAG GAC CGC CGC AAU GCA AAA CAG UCG AAA CUG UCC GCG AAG CGC CUC

Amino Acid Sequence: Know me and you will know yourself