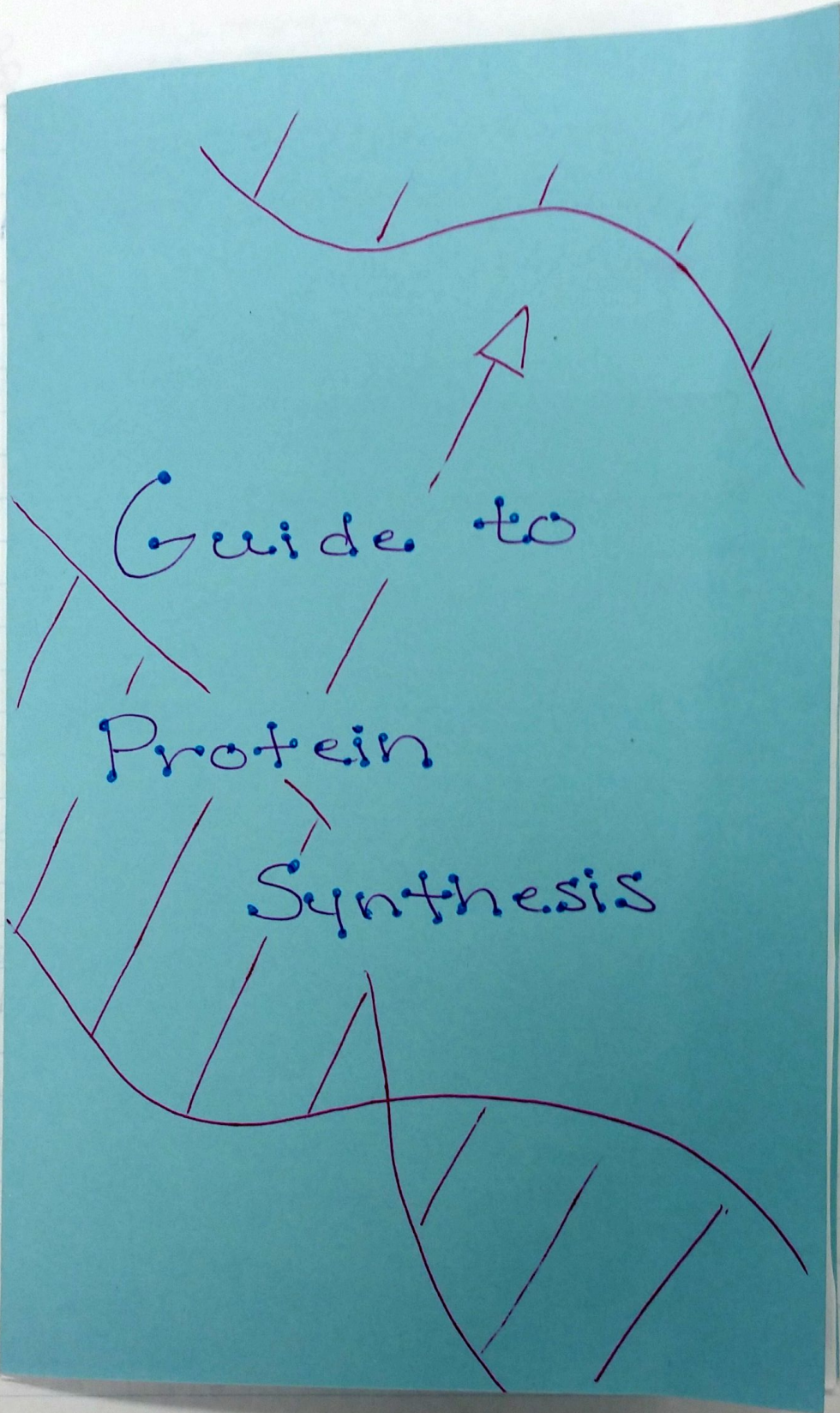


Guide to

Protein

Synthesis



T-A =
C-D

A: CTAAC
A: GATCC

U-A = A
C-D

A: CTAAC
A: GATCC

DNA = genetic instructions
for building proteins

Proteins = large molecules

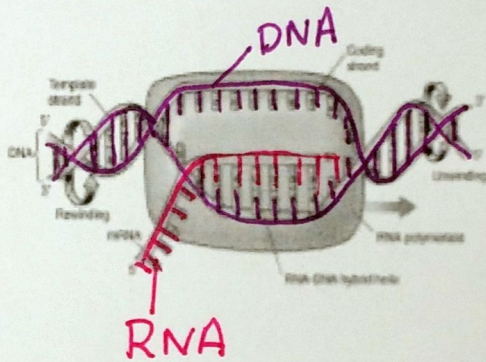
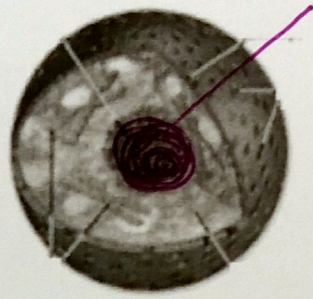
that do most of the

work in cells, they are

the building blocks of life

DNA is the instructions for making proteins, but it can't leave the nucleus... So we have to make an RNA copy!

Nucleus



1. Transcription

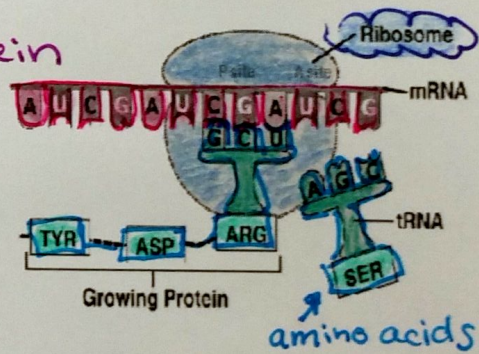
DNA → RNA

- DNA unwinds and splits down the middle
- RNA nucleotides copy the information
- * Remember A=U for RNA

2. Translation

RNA → Amino Acids → Protein

- RNA meets up with a ribosome
- RNA is read 3 bases at a time (codon)
- Each codon codes for an amino acid



• a chain of amino acids is created

• the chain of amino acids makes up a protein!

