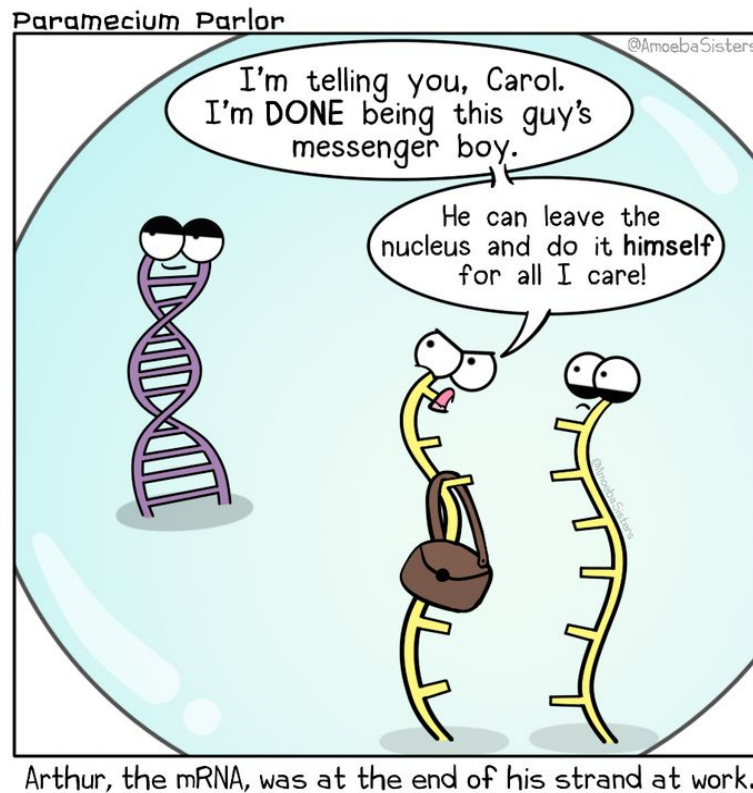


Reagan Richardson

Cell Biology Meme



In this comic, the relationship between DNA and mRNA is explained through a workplace analogy. Arthur, the single-stranded mRNA, is upset at the DNA molecule because he has to relay the genetic information from the DNA inside the nucleus to the cytosol where translation takes place. In the meantime, the DNA strands can remain inside the nucleus without having to move its location, which only adds to Arthur's frustrations.

Learning about DNA transcription and translation can be difficult, and this meme helps summarize and simplify the purpose of mRNA. Serving as a messenger between DNA and the ribosomes where protein synthesis occurs, mRNA is like the blueprint of the cell's DNA that encodes for different proteins. Therefore, the DNA remains inside of the nucleus while the mRNA constantly travels from within the nucleus to the ribosomes, which means that Arthur will not be able to quit his job. 😞