

DRAW ENDOSYMBIOTIC THEORY

Slide show by Kelly Riedell/Brookings Biology

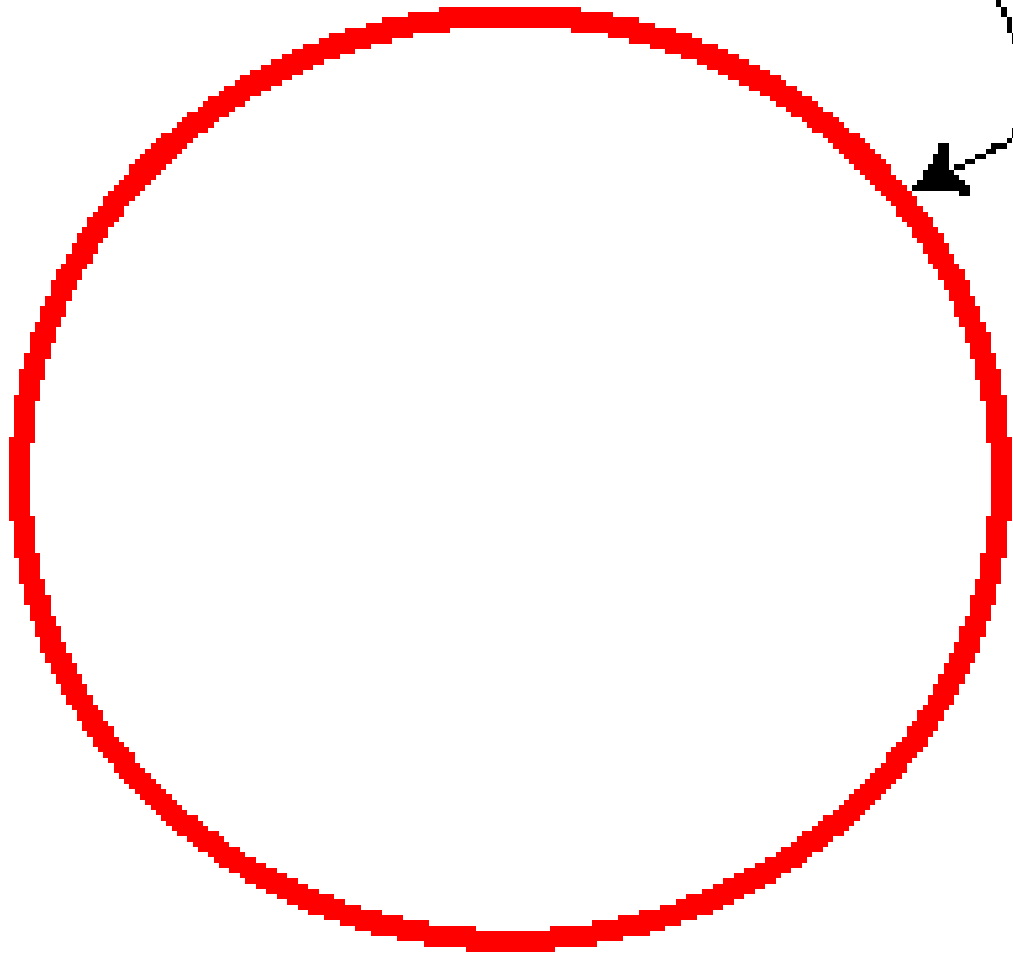
Watch this [video](#)

Write a short paragraph in your BILL:
EXPLAINING the ENDOSYMBIOTIC THEORY

Now let's draw it to see the evidence!

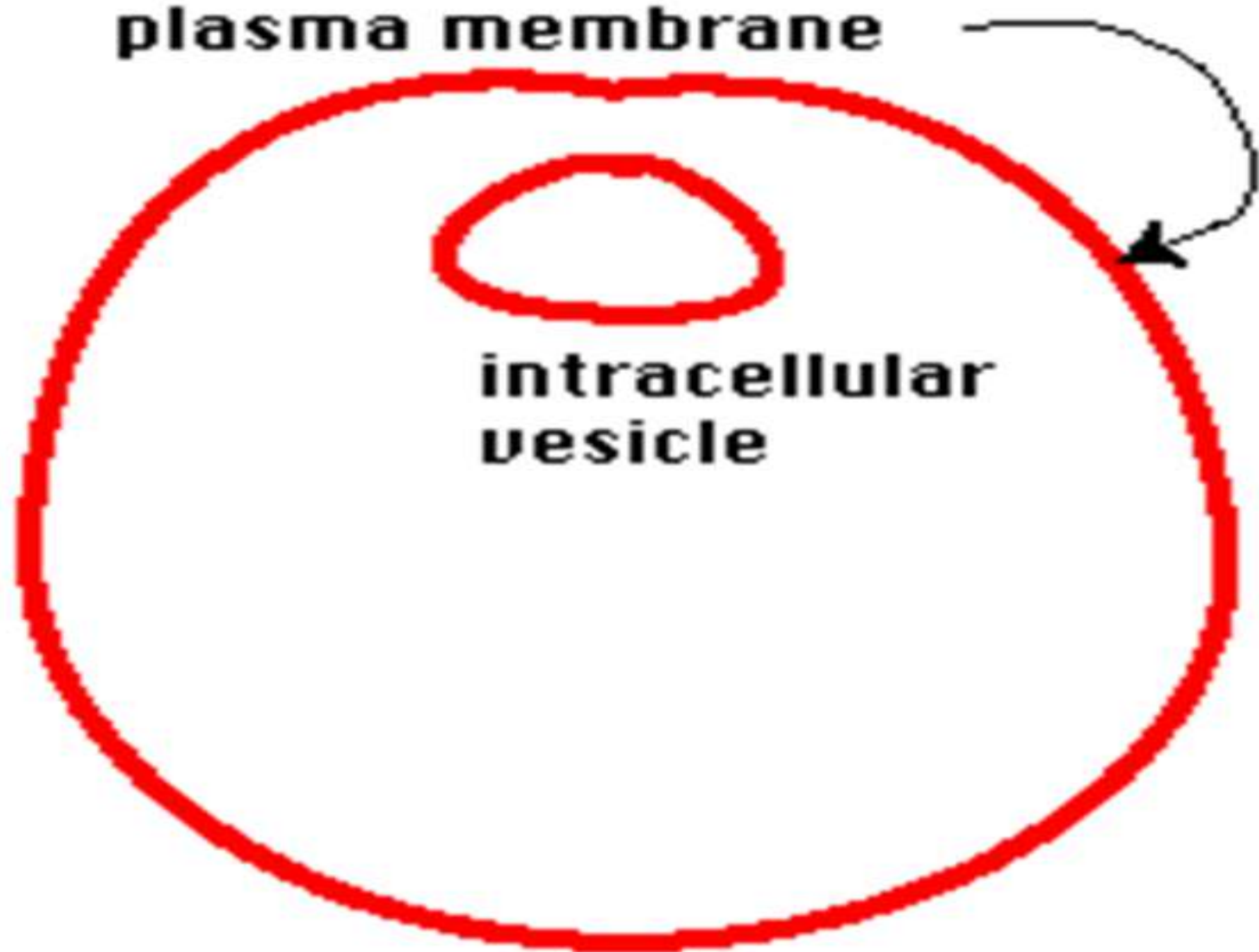
[animation](#)

plasma membrane

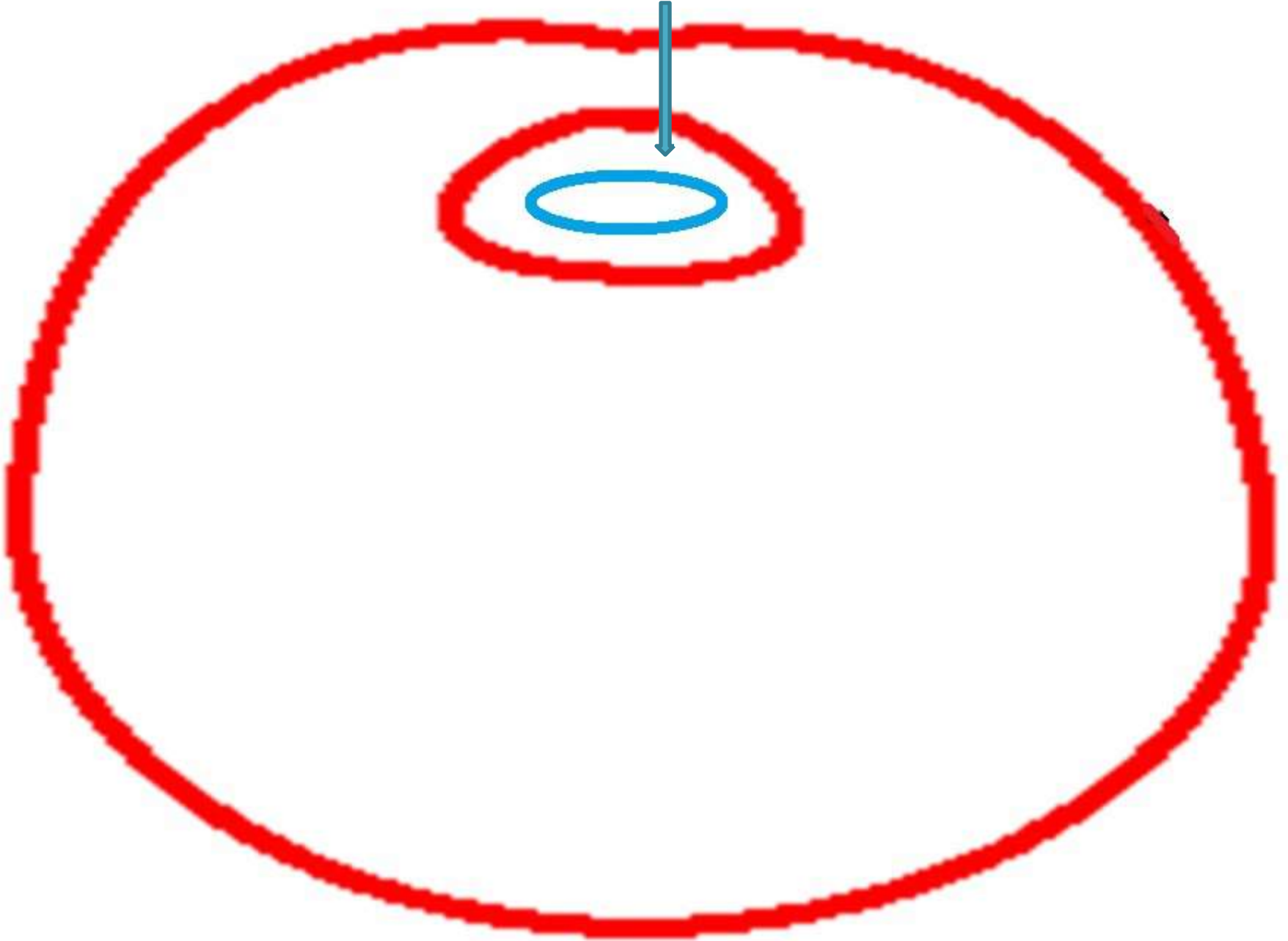


plasma membrane

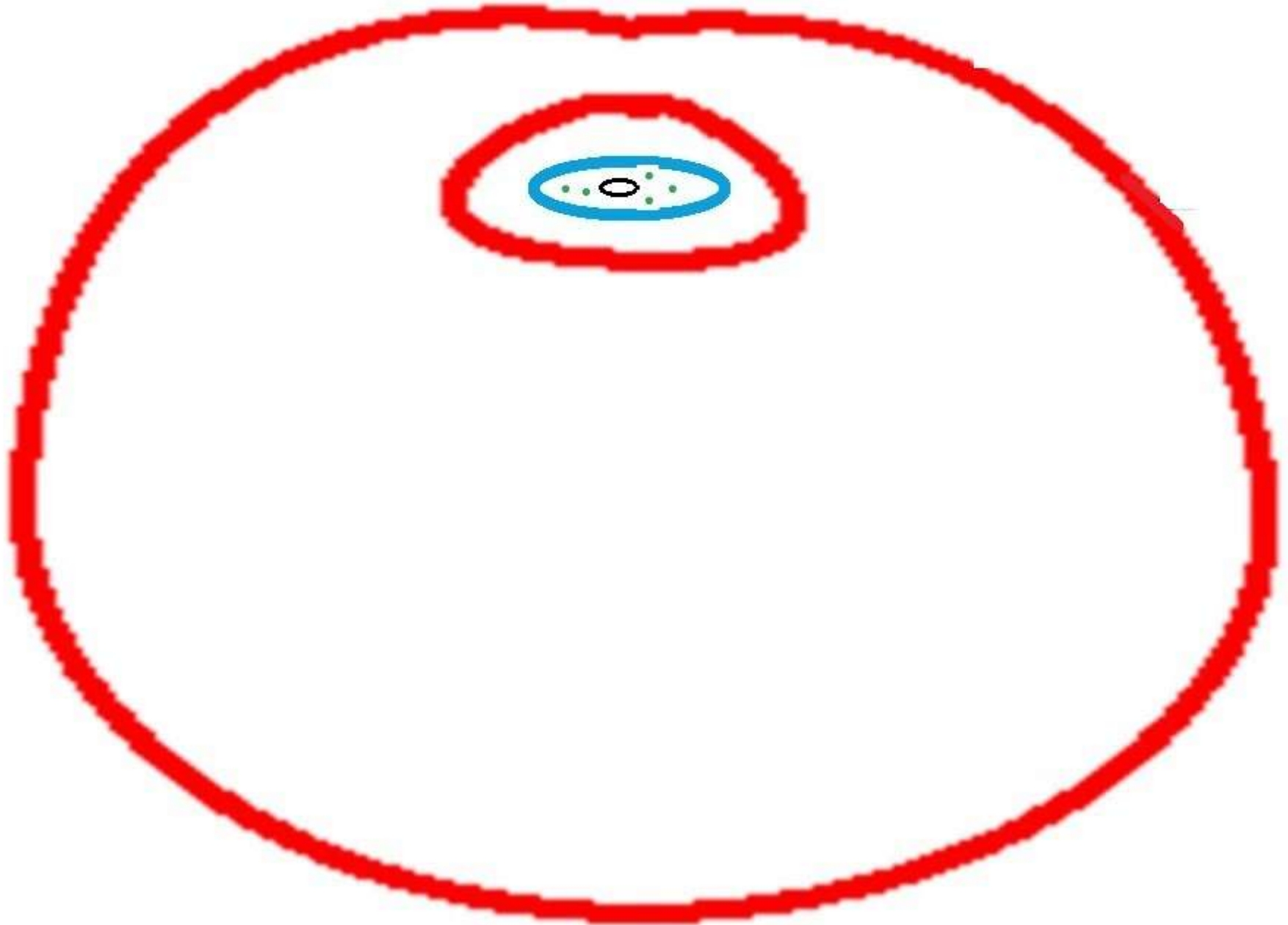
**intracellular
vesicle**



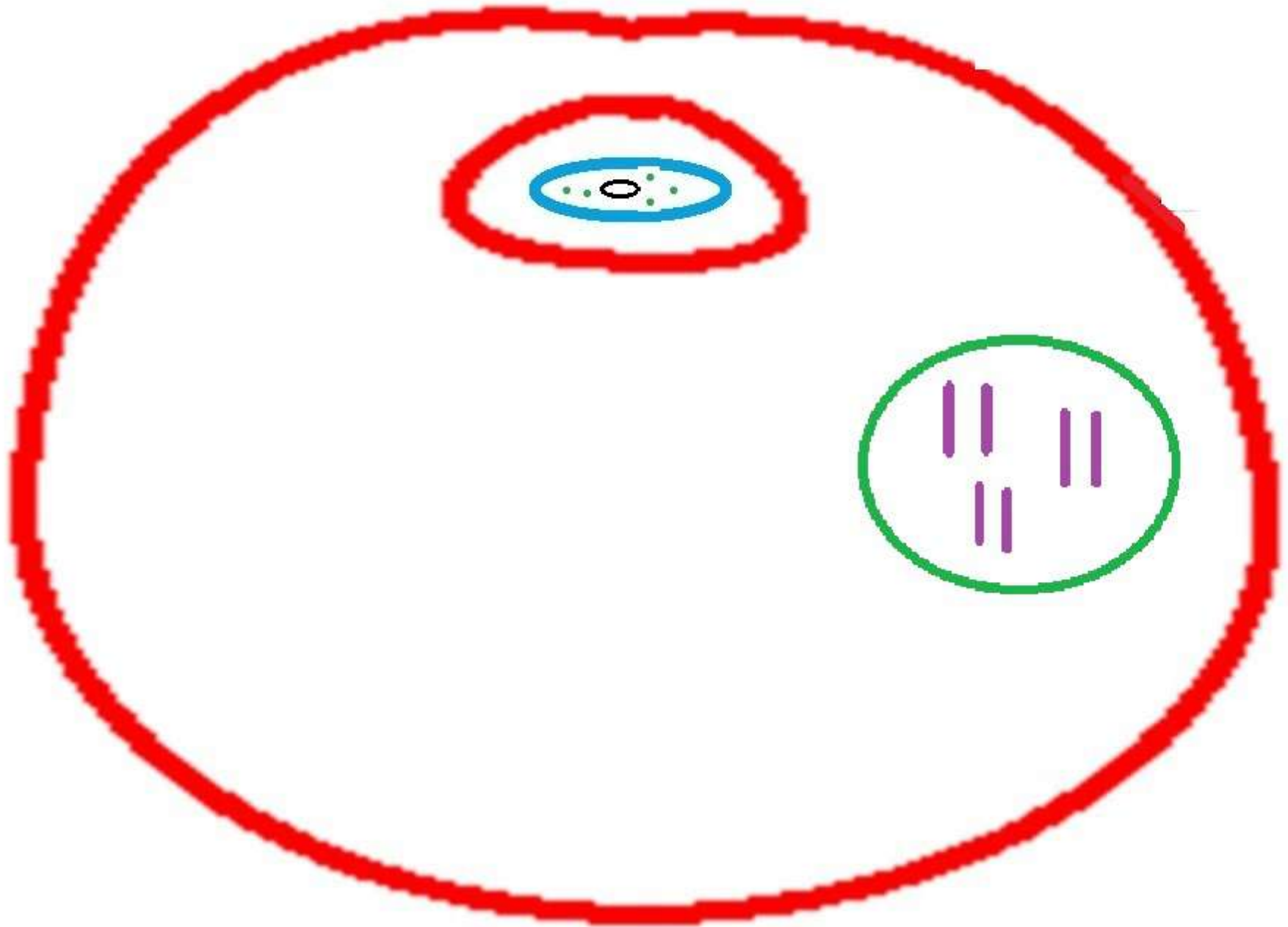
Bacterial plasma membrane



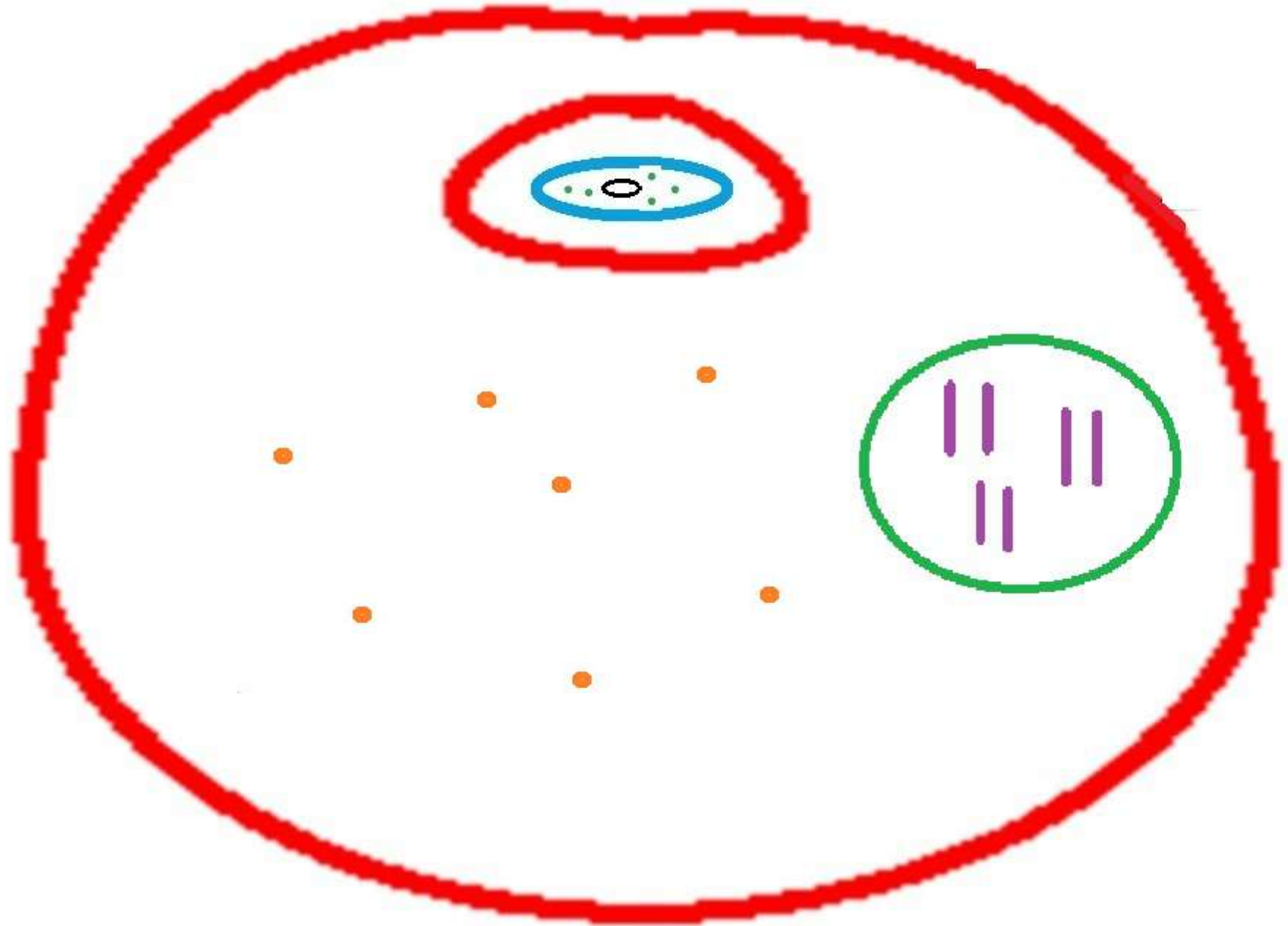
Add some bacterial ribosomes and DNA

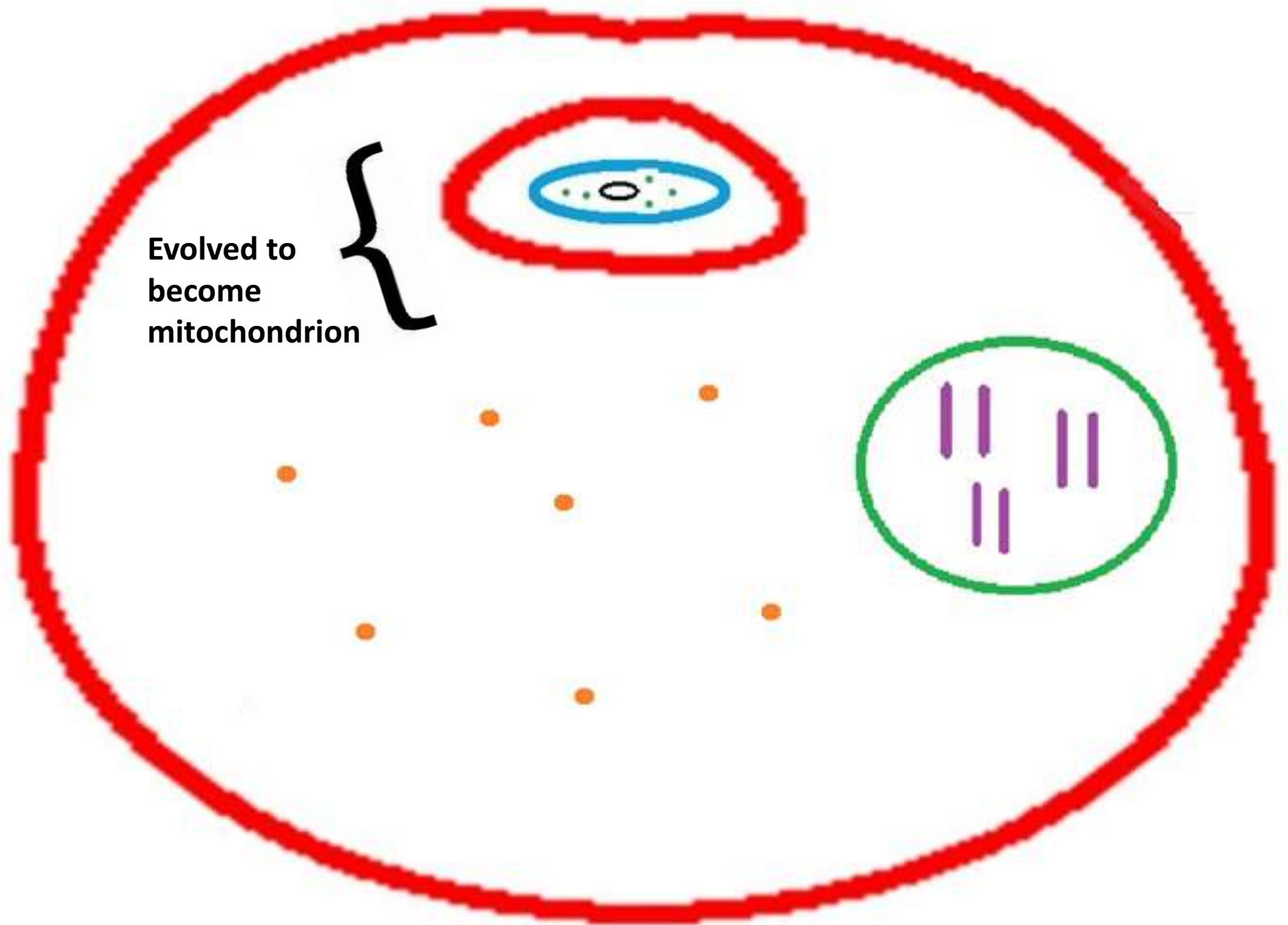


Remember host cell is a eukaryote. Add a nucleus and host DNA
How is this different from bacterial DNA?



Add some eukaryotic host ribosomes.
How are these different from bacterial ribosomes?





WHAT's the EVIDENCE?

Look at the colors in your picture.

Which parts of mitochondria/chloroplasts have a prokaryotic bacterial origin?

Which have a eukaryotic host origin?

Make a list of the evidence for the ENDOSYMBIOTIC THEORY?

Find these in your picture!