

Lesson 1.3

Self-paced study

All work should be recorded on page
15 in your Science Notebook

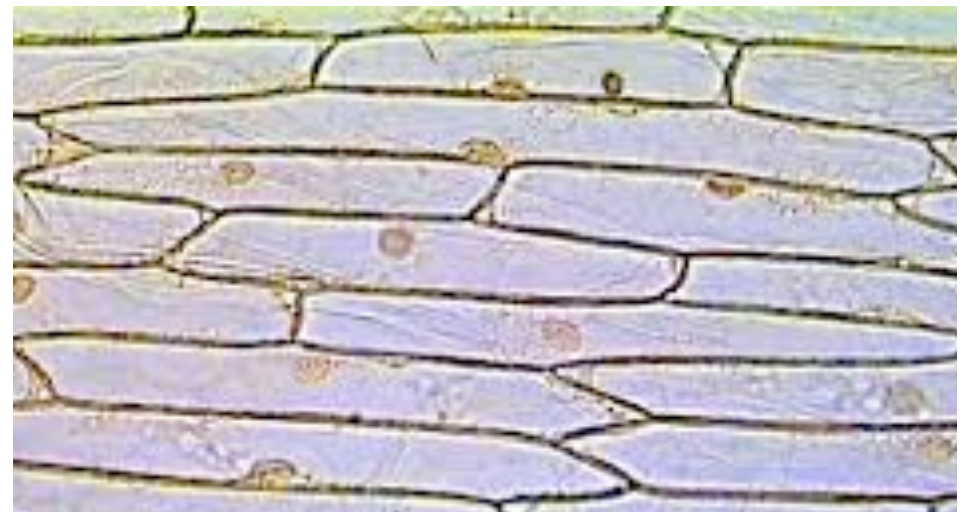
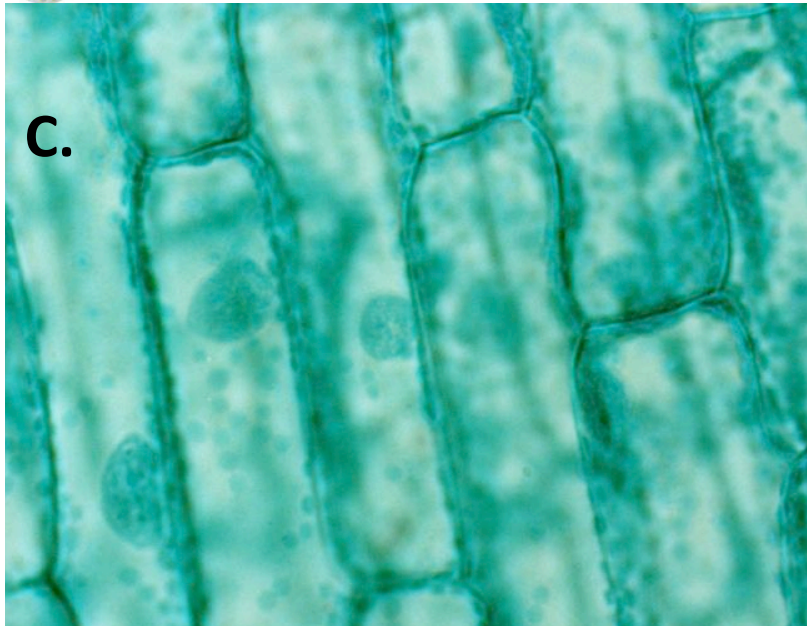
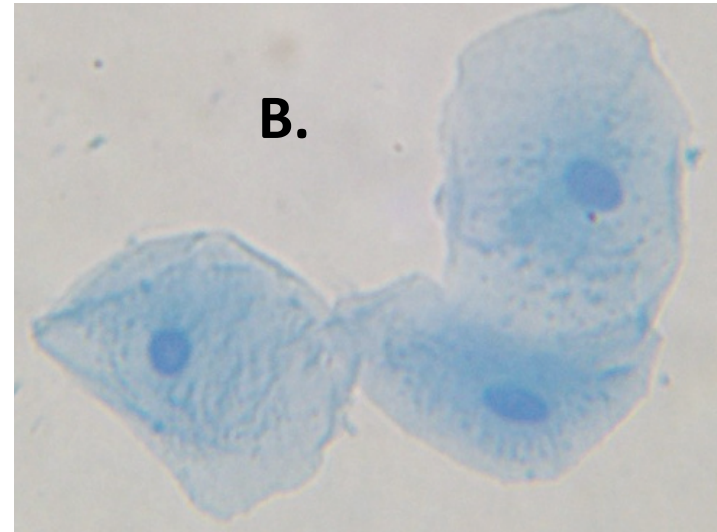
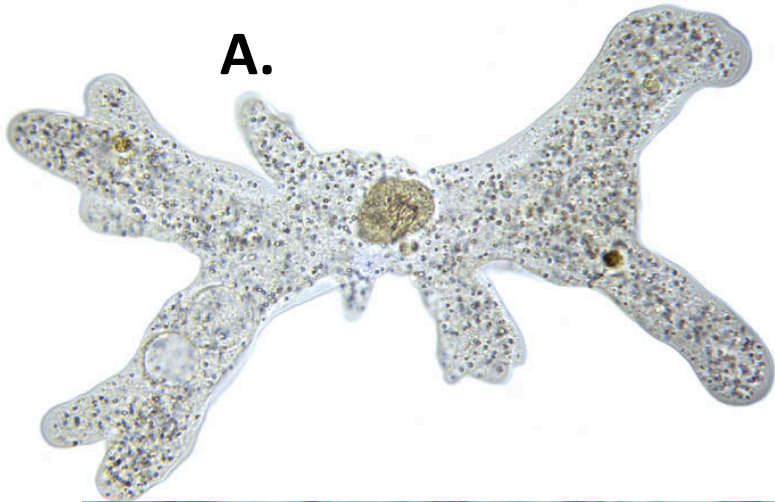
Think

- 1) If you were going to look inside the body for something that makes traits show up like they do in humans and living things, where would you look? Why?

Alive?

- 2) What do you know about what is *inside* humans, plants and other living things that enables organisms do the work of living?

3) What structures do these cells have in common? List (or describe) them!



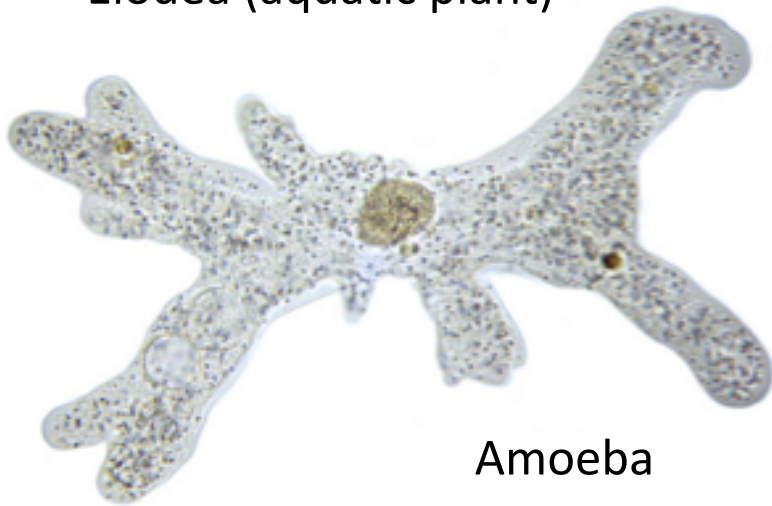
4) Match cells on previous slide to organism below? Clues? Traits?



Elodea (aquatic plant)



Onion
Bulb

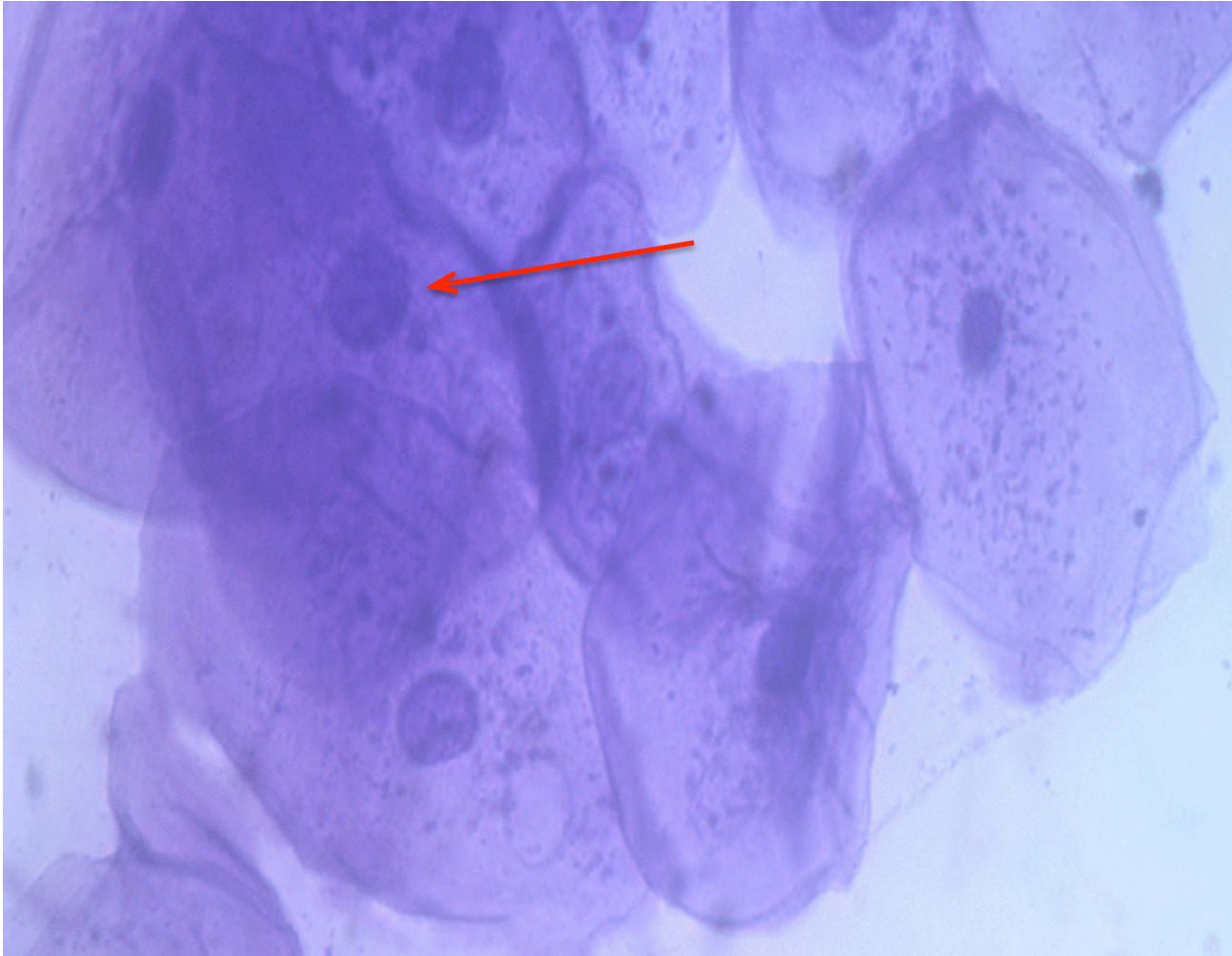


Amoeba

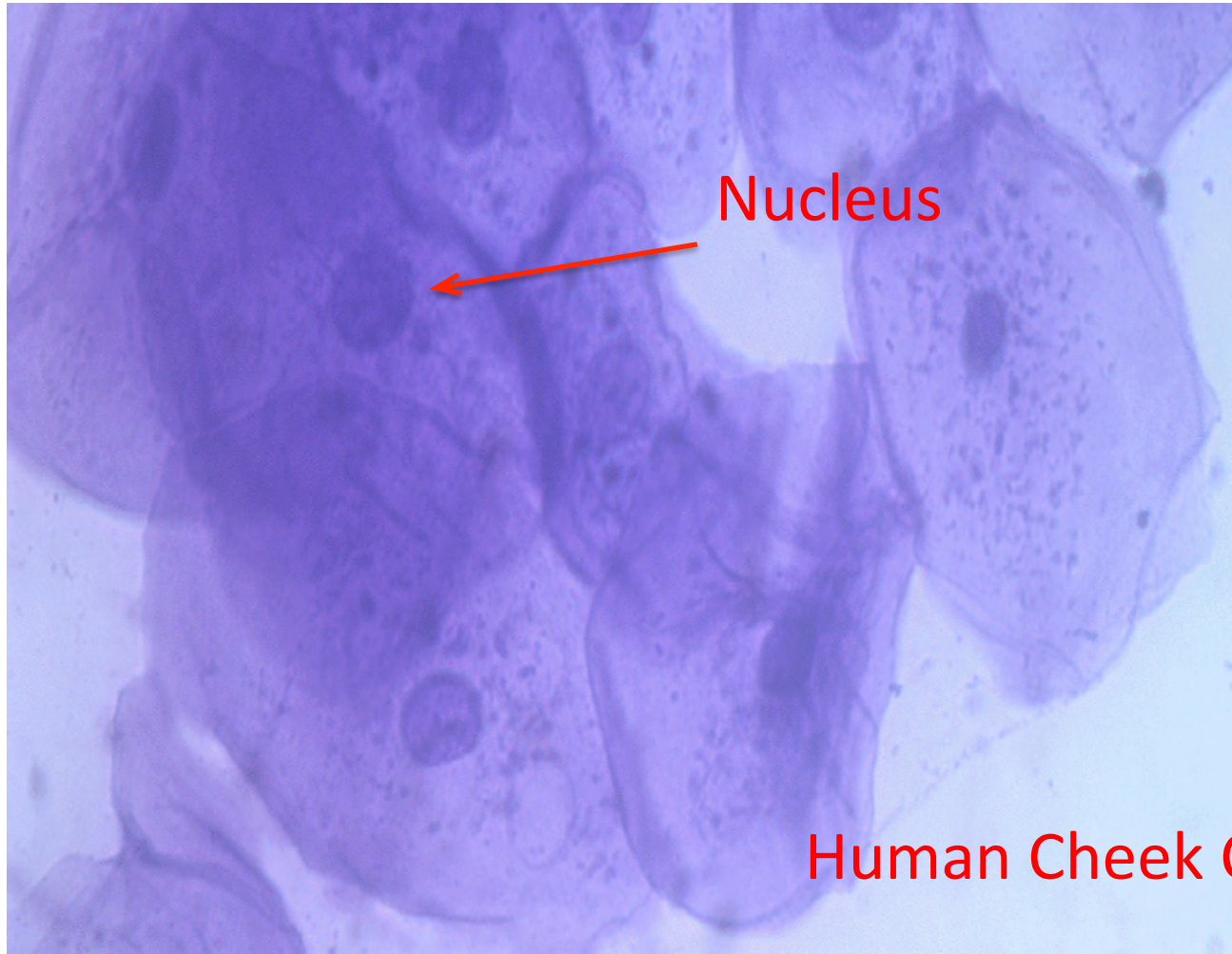


Human

5) What are the dark staining structures in the cell?



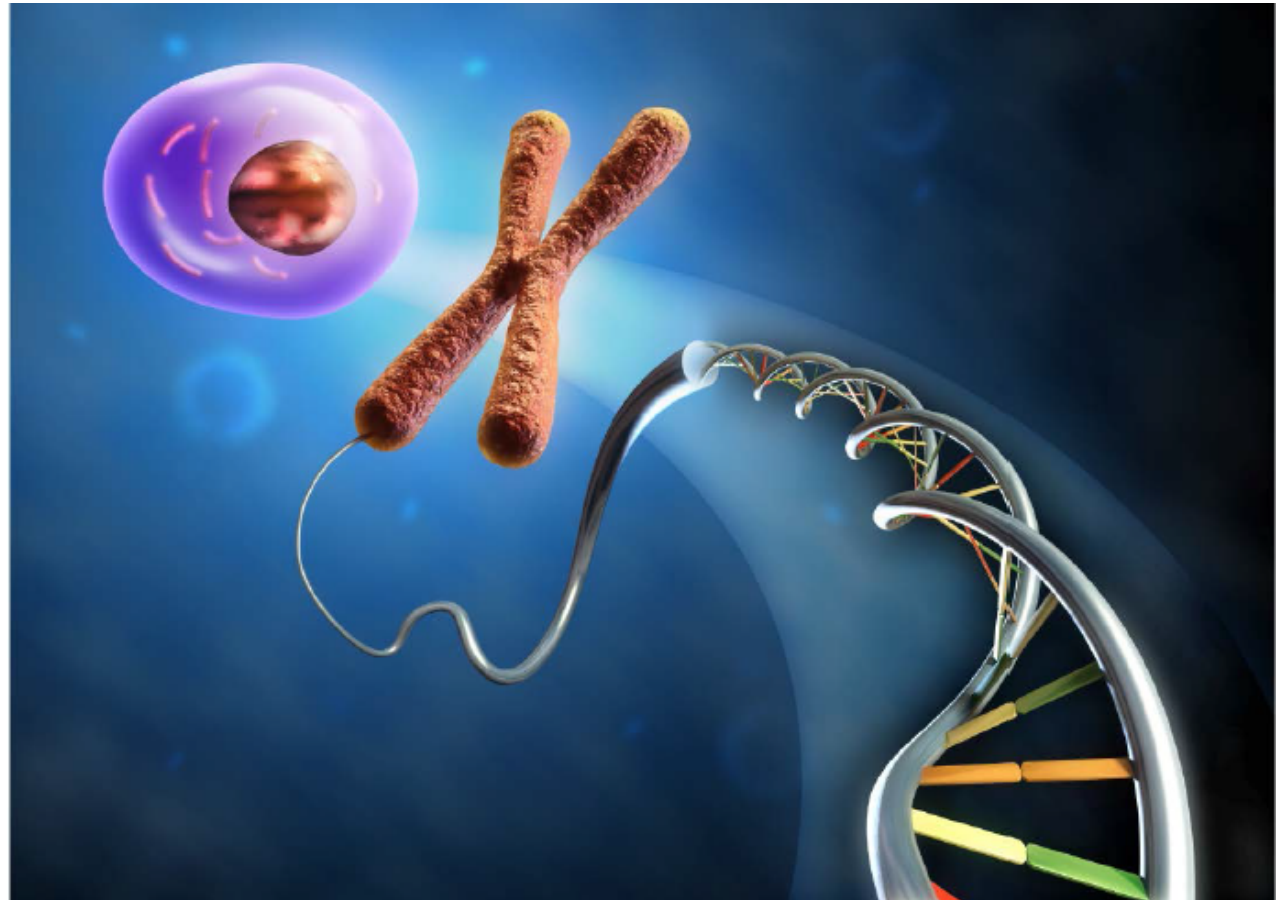
6) What is found inside the nucleus in the cell?



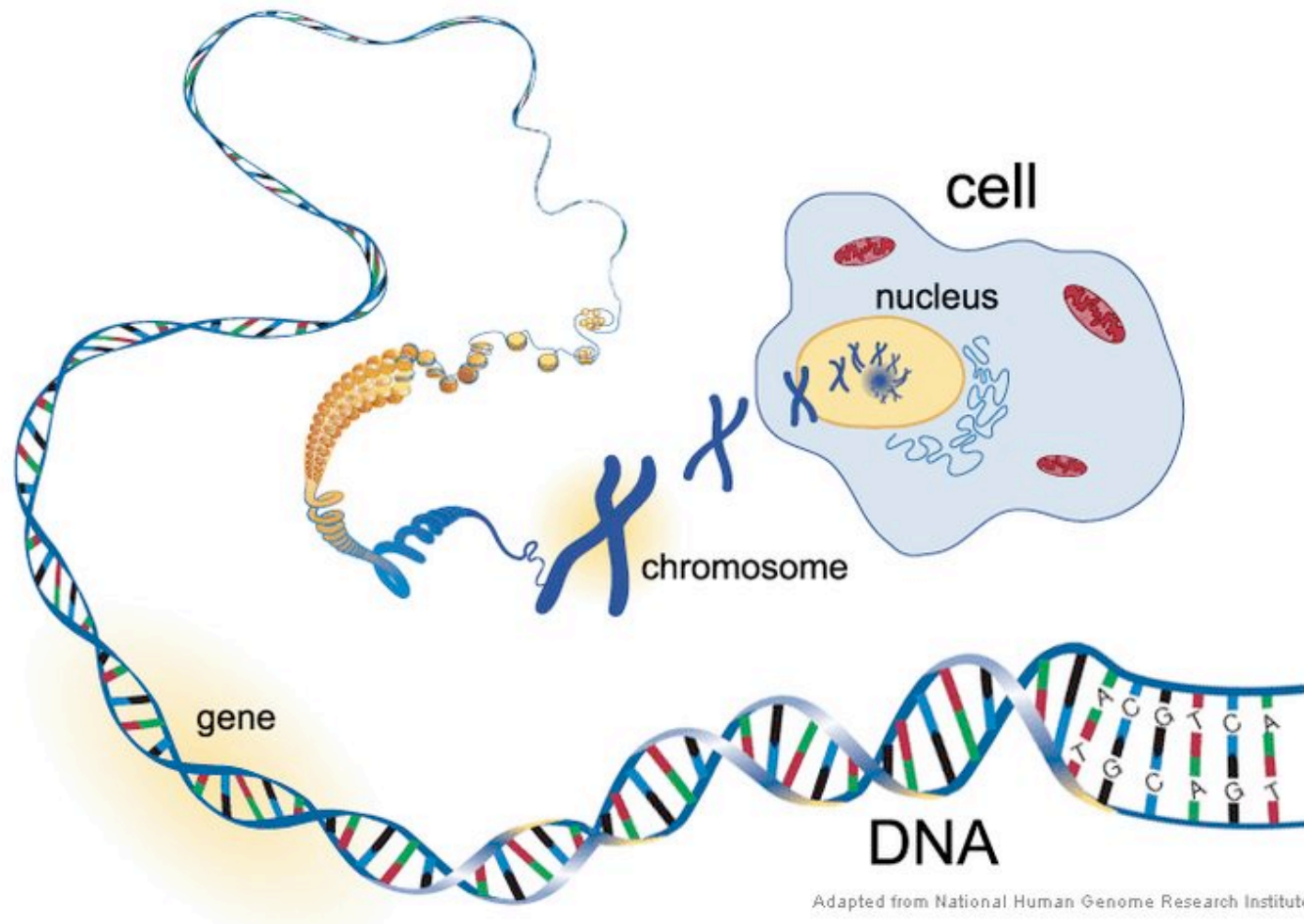
Human Cheek Cell 😊

When technology improved....

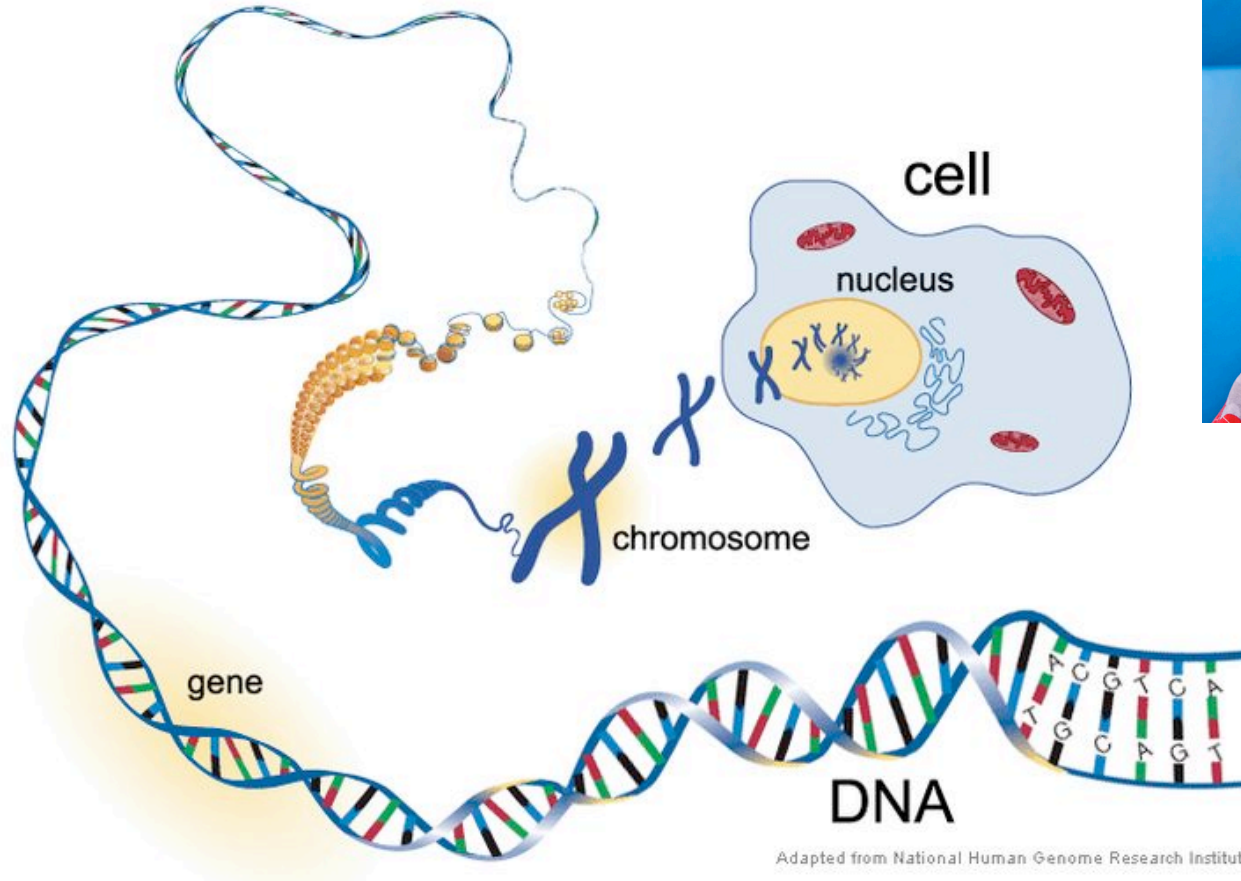
Scientists
observed
stringy stuff
in the nucleus.
DNA was the
“stuff.”



7) What do you think this diagram was made to show? Start inside the nucleus and work your way out. Explain fully.



8) At this point, what do you think DNA, genes, and chromosomes have to do with traits?



Adapted from National Human Genome Research Institute