
FINISHED RBC S/F
FOR HW + REVIEWED
ON 9/20

9/18/19

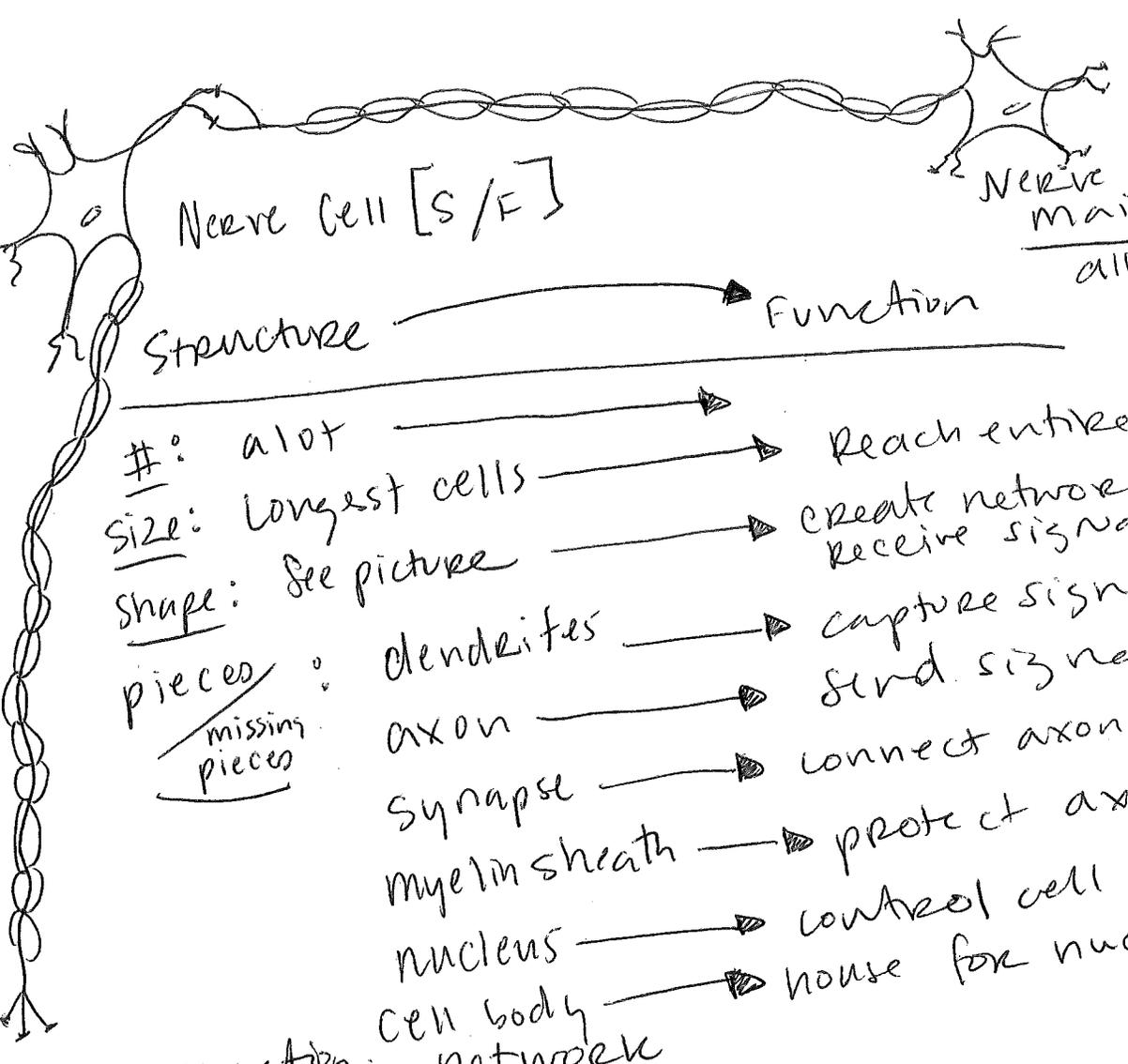
RBC [Red Blood Cell] S/F

RBC MAIN
FUNCTION:
carry $O_2 + CO_2$



STRUCTURE → FUNCTION

- # : 4-5 million / cubic mm → carry more $O_2 + CO_2$
- Size : 6 to 8 μm diameter
— 2 μm thick → fit more cells into veins, arteries + capillaries
- pieces missing : Lacking mitochondria
Nucleus + ER → allow cell to be flexible so it can fit; more space for hemoglobin
- Hemoglobin → carry $O_2 + CO_2$
- Rigidity : flexible → fit in tubes; more cells
- Shape : biconcave disc
Round bottom → fit in tubes
- connections : many cells work as group → carry more $O_2 + CO_2$



Nerve Cell [S/F]

Nerve Cell
Main Function:
allow body to
communicate
with world

Structure → Function

- #: a lot → Reach entire body
- Size: Longest cells → create network to send + receive signals
- Shape: See picture → capture signal
- pieces:
 - dendrites → send signal to another cell
 - axon → connect axon + dendrite
 - synapse → protect axon + signal
 - myelin sheath → control cell activities
 - nucleus → house for nucleus
- missing pieces: cell body → network
- connection: network

GO: How does the structure of a nerve cell enable it to function?

CLAIM: The structure of a nerve cell enables it to function. The main function is to help the body communicate with the world.

Evidence

Explain

