

PSYCHOLOGY

PSY 101 General Psychology

Instructor: Aimee Kim

Drexel University

Scientific method

Falsifiability

Scientific method

Falsifiable?

No

I have a fairy godmother who is
always watching over me.

Scientific method

Falsifiable?

Yes

Britney Spears is from Mars.

Scientific method

Falsifiable?

No

When people die, you exit your body and see your body for the last time before you fly away.

Scientific method

Falsifiable?

Yes

The world is coming to an end in a week.

Scientific method

Falsifiability

Significant difference

Is it by chance?

Correlation and causation

Correlation

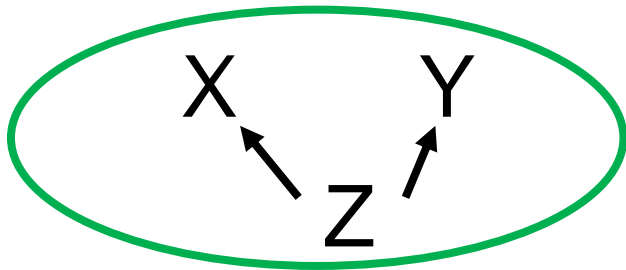
Relationship between variables

Positive vs negative correlation vs none

Correlation does not imply causation

$$X \rightarrow Y$$

$$X \leftarrow Y$$



However, It does not exclude the possibility of causation

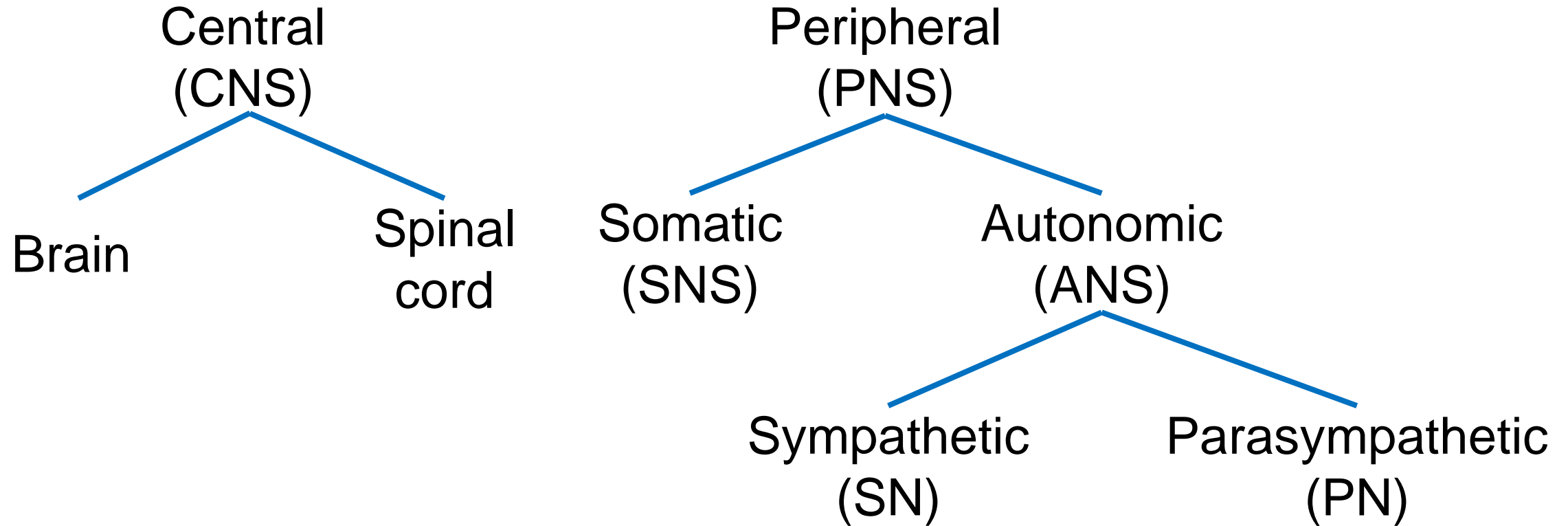
MIND & CONSCIOUSNESS

PSY 101 General Psychology

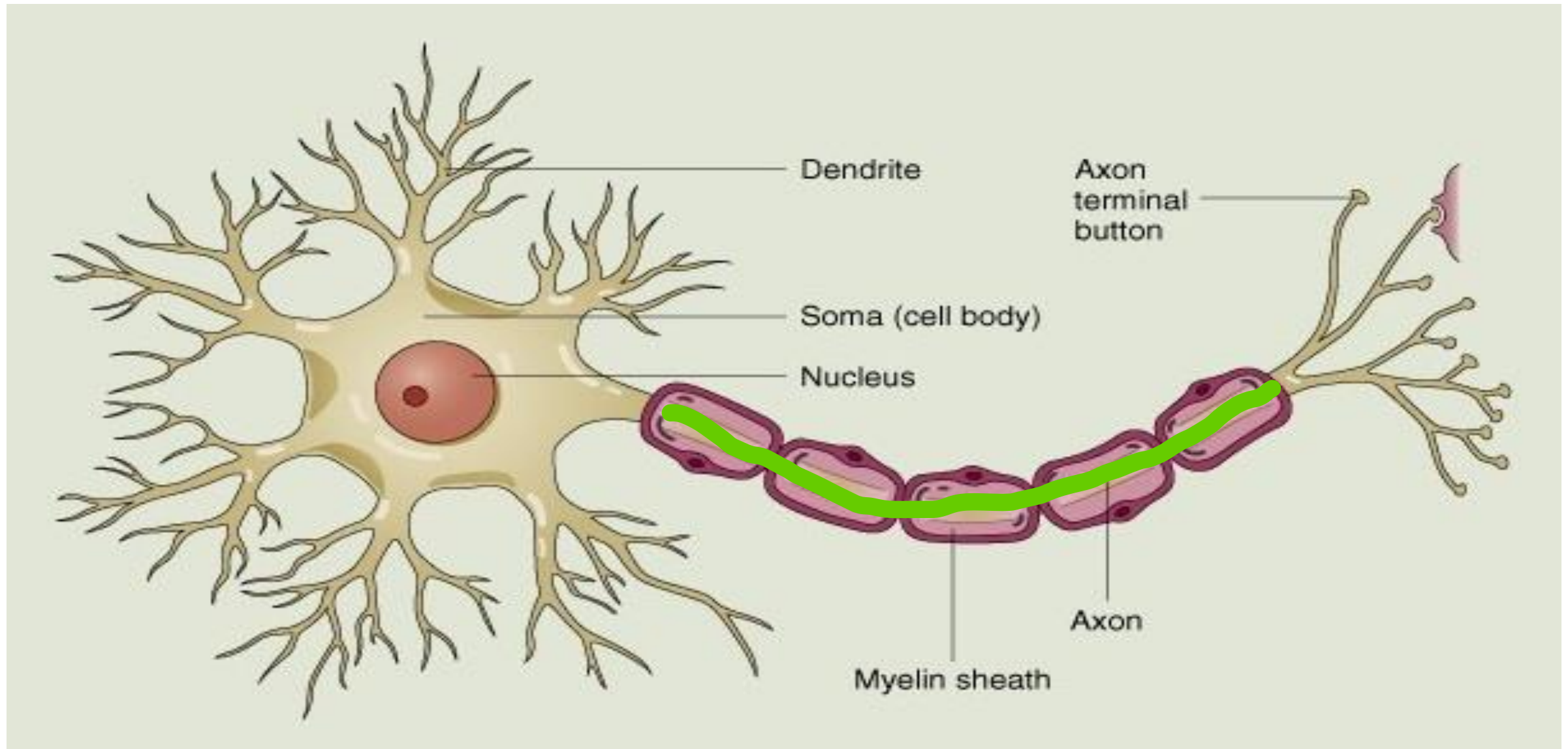
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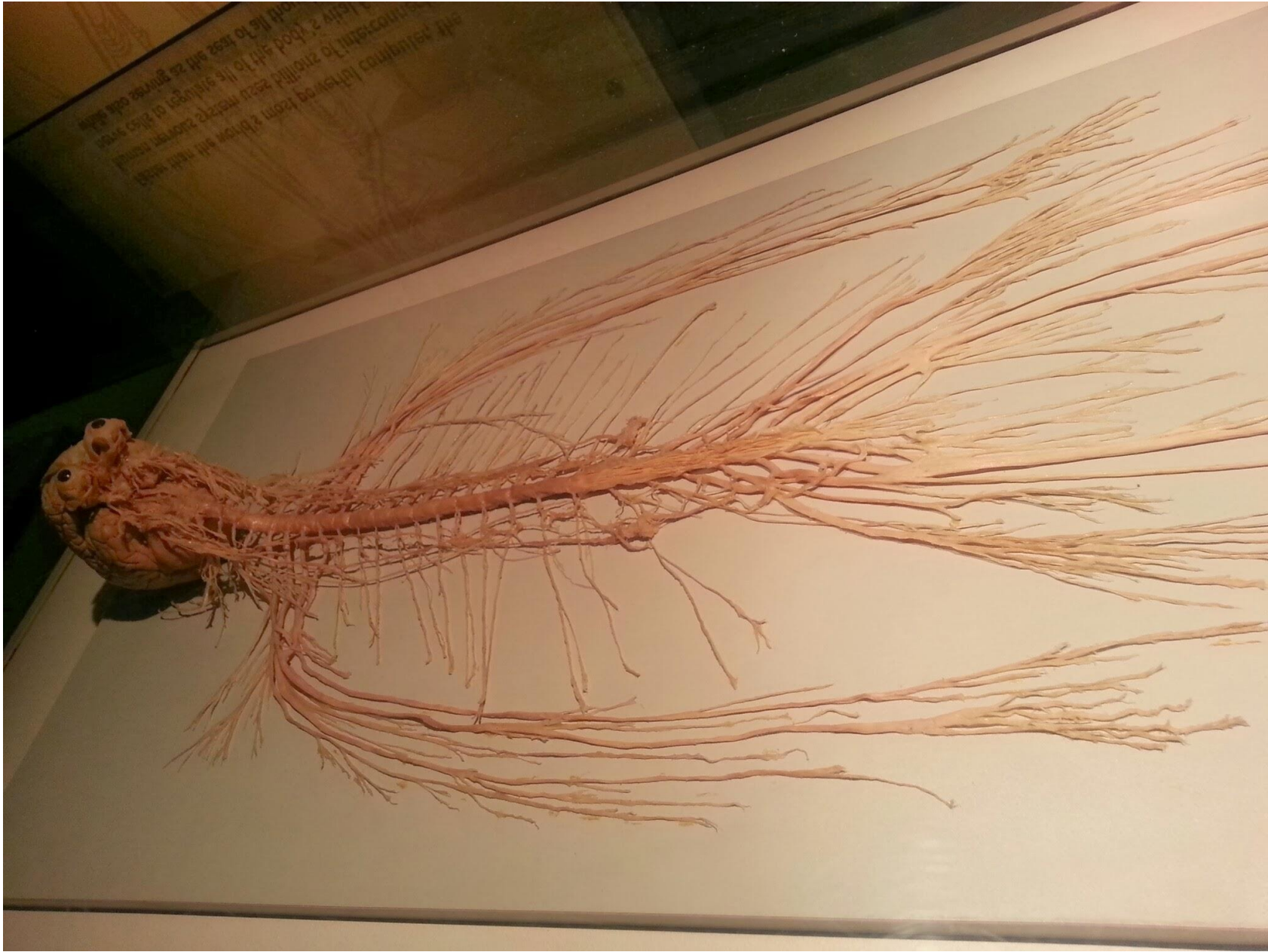
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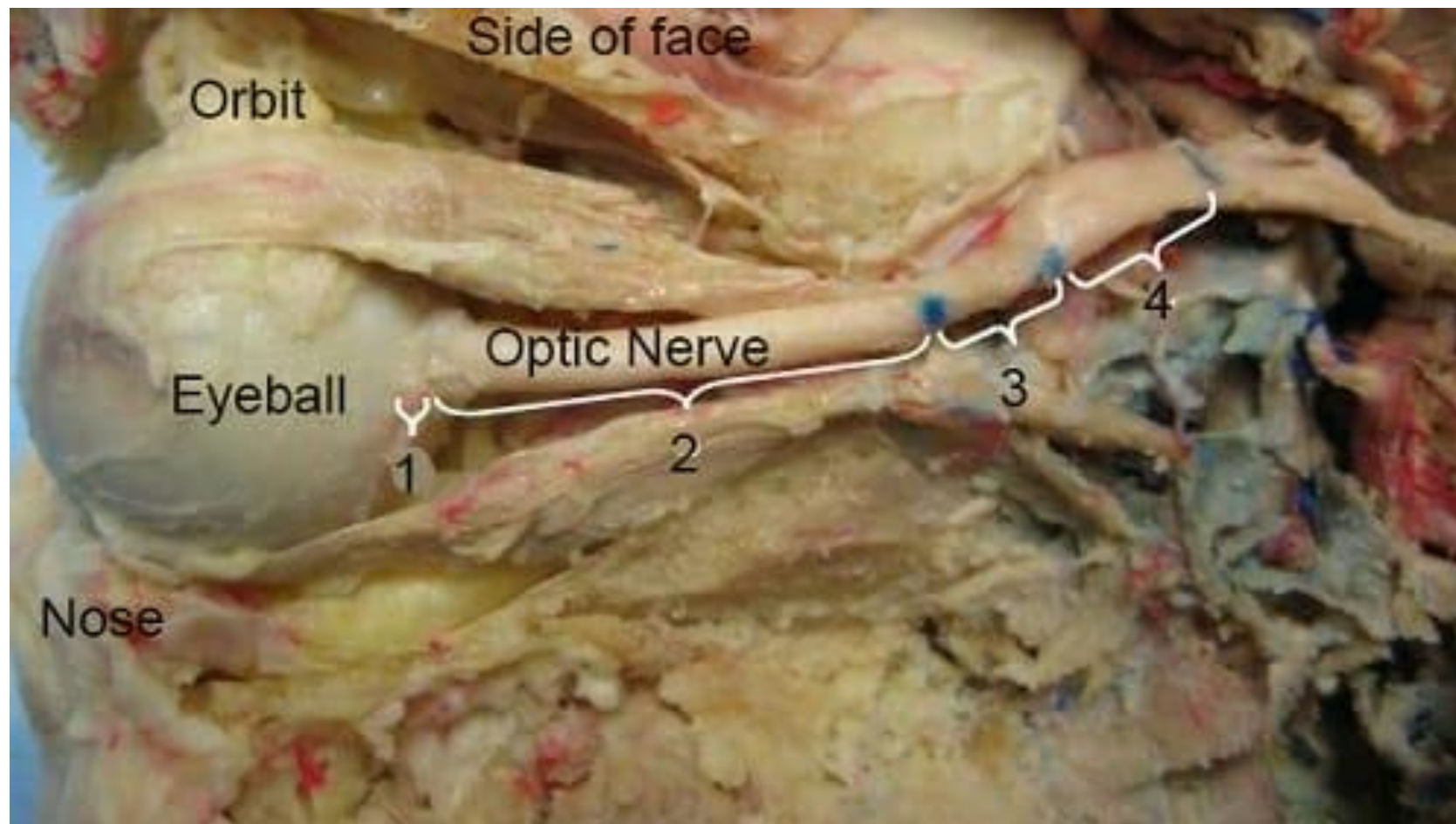
The nervous system

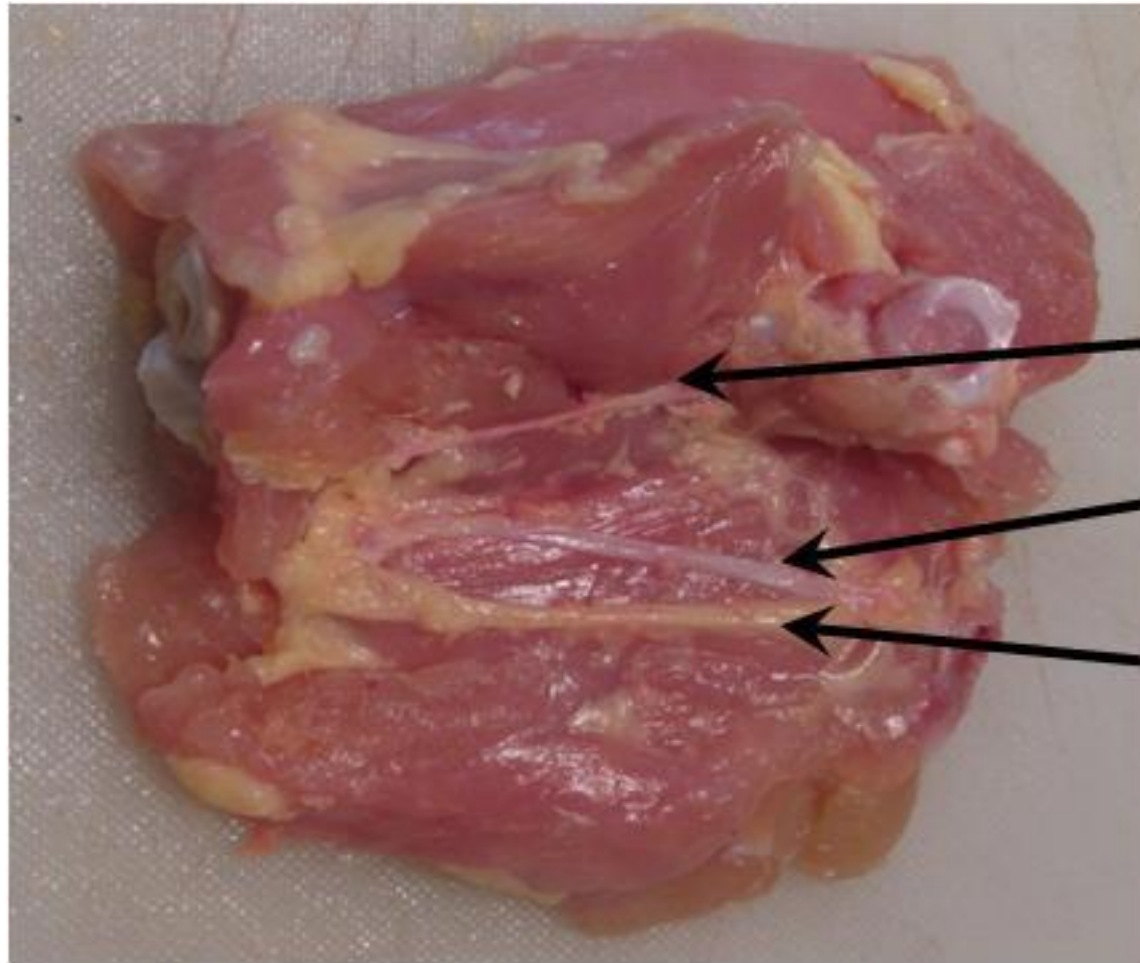


Neurons - Basic structure









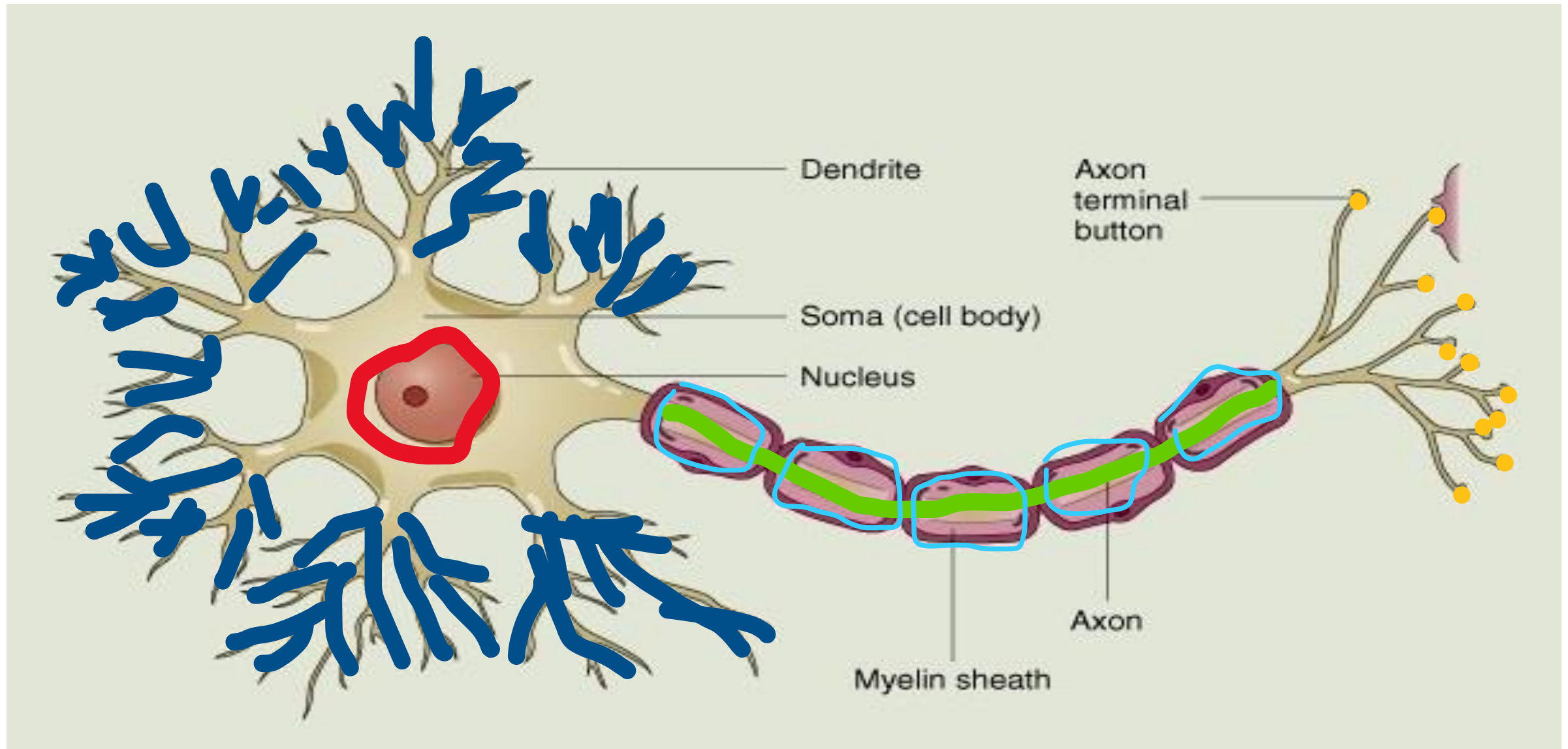
vein

artery

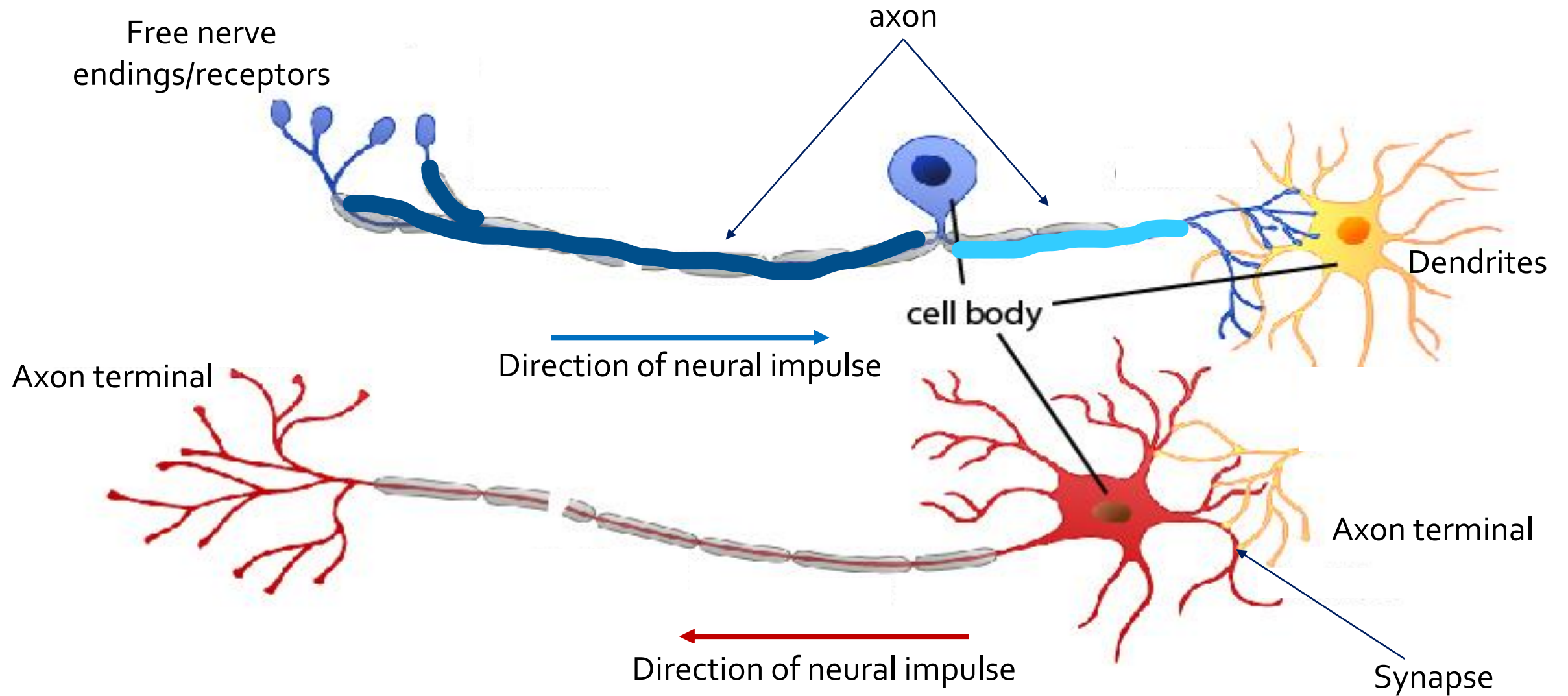
nerve



Neurons - Basic structure



General types of neurons

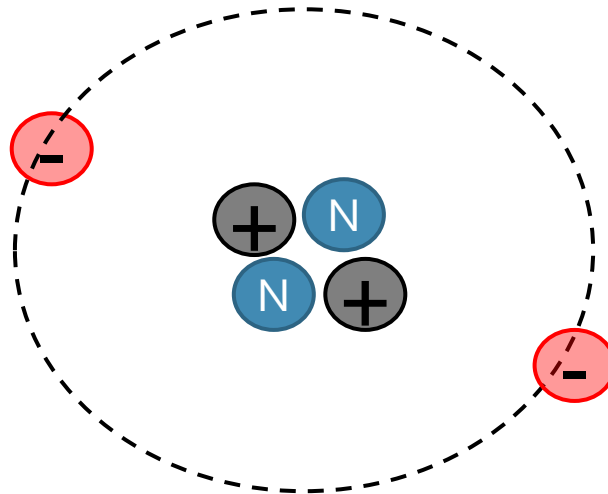


Neurons communicate with each other electrochemically

- chemical signals (neurotransmitters) between neurons
- electrical signal within a neuron

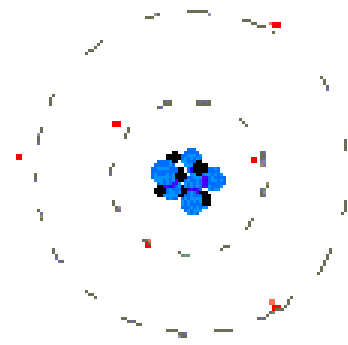
Chemicals have electrical charges (ions)

Atom



This Atom is Neutral

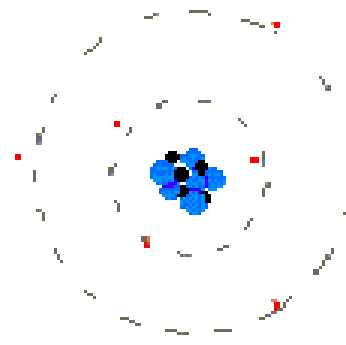
*Same number of protons
and electrons*



- 6 Protons
- 6 Neutrons
- 6 Electrons

This Atom is Negatively Charged

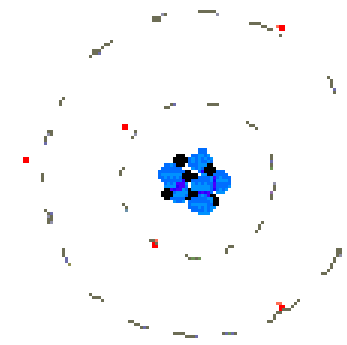
More electrons than protons



- 5 Protons
- 6 Neutrons
- 6 Electrons

This Atom is Positively Charged

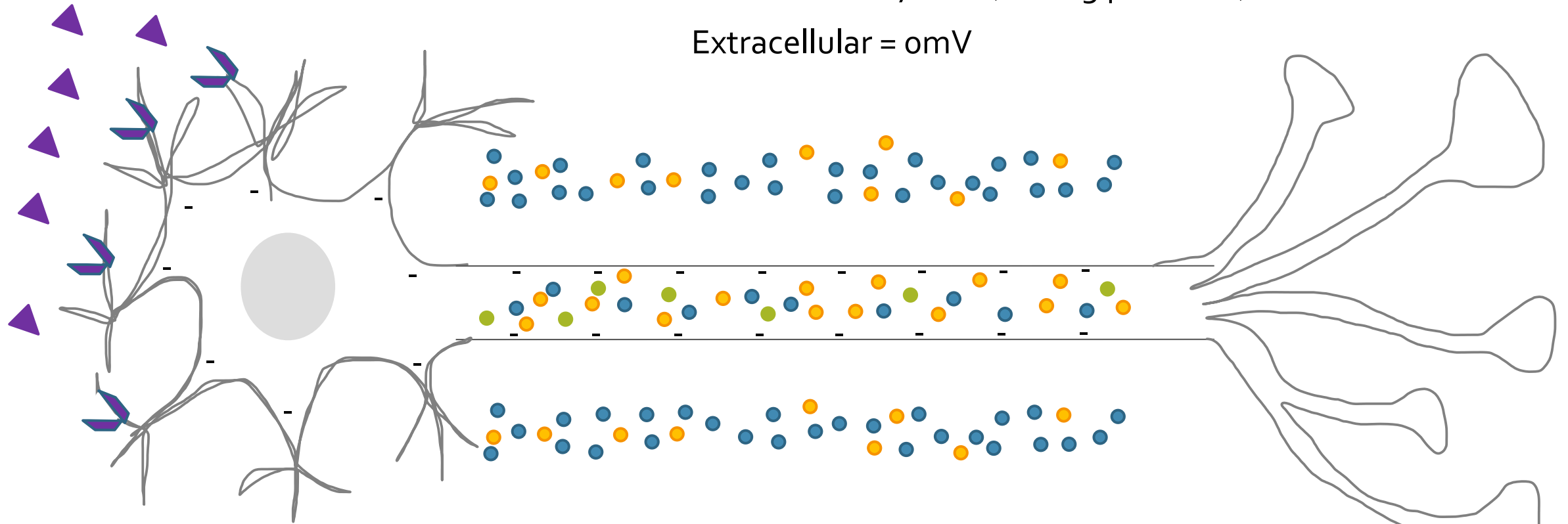
More protons than electrons



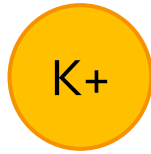
- 6 Protons
- 6 Neutrons
- 5 Electrons

Intracellular = -70mV (resting potential)

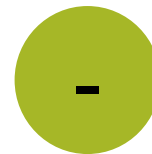
Extracellular = 0mV



sodium ions (+)



potassium ions (+)



various negative ions (-)