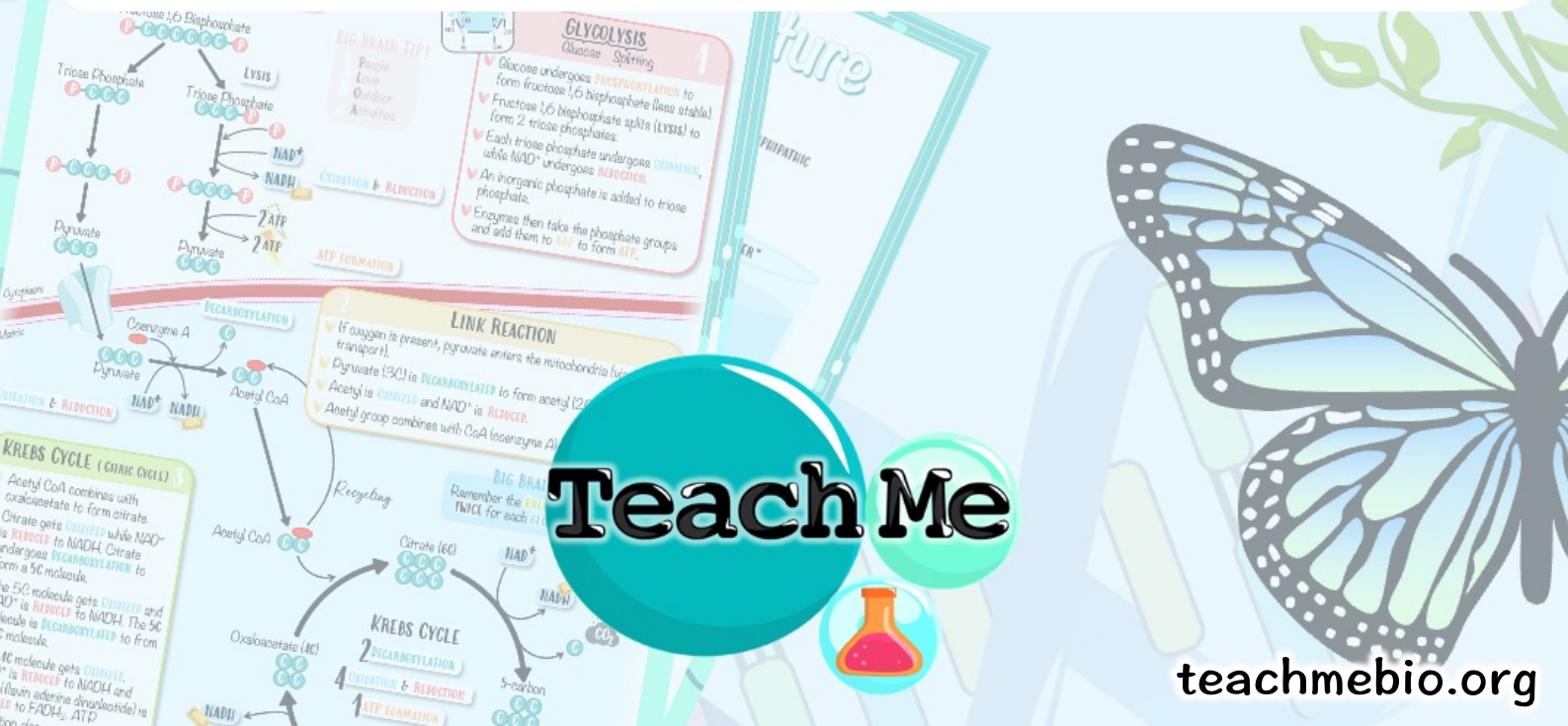


TeachMe

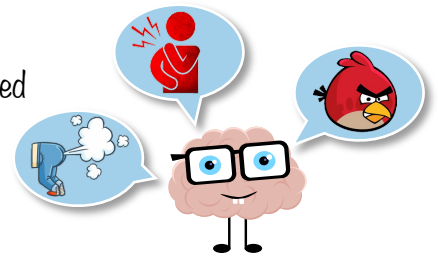
STUDY NOTES

C2.2 NEURAL SIGNALING



Neural Signaling

NERVOUS SYSTEM – comprised of cells which carry electrical impulses (signals) between the brain and the rest of the body via the spinal cord and nerves. Considered as the control center of the body. It can coordinate actions (muscles), transmit sensory information, control emotions, memory, etc...



CENTRAL NERVOUS SYSTEM "BIG BOSS"

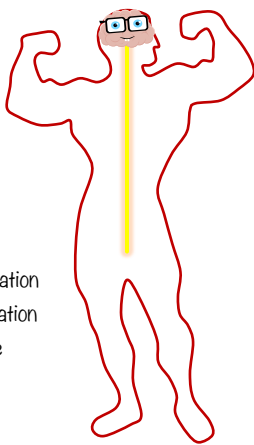
CNS

INCLUDES:

- Brain
- Spinal cord

PURPOSE:

- Receives information
- Interpret information
- Initiate response



PERIPHERAL NERVOUS SYSTEM "WORKER OF BIG BOSS"

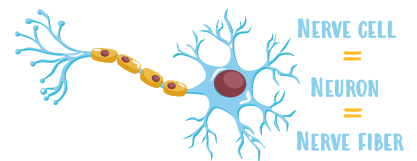
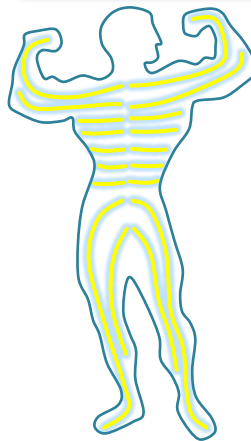
PNS

INCLUDES:

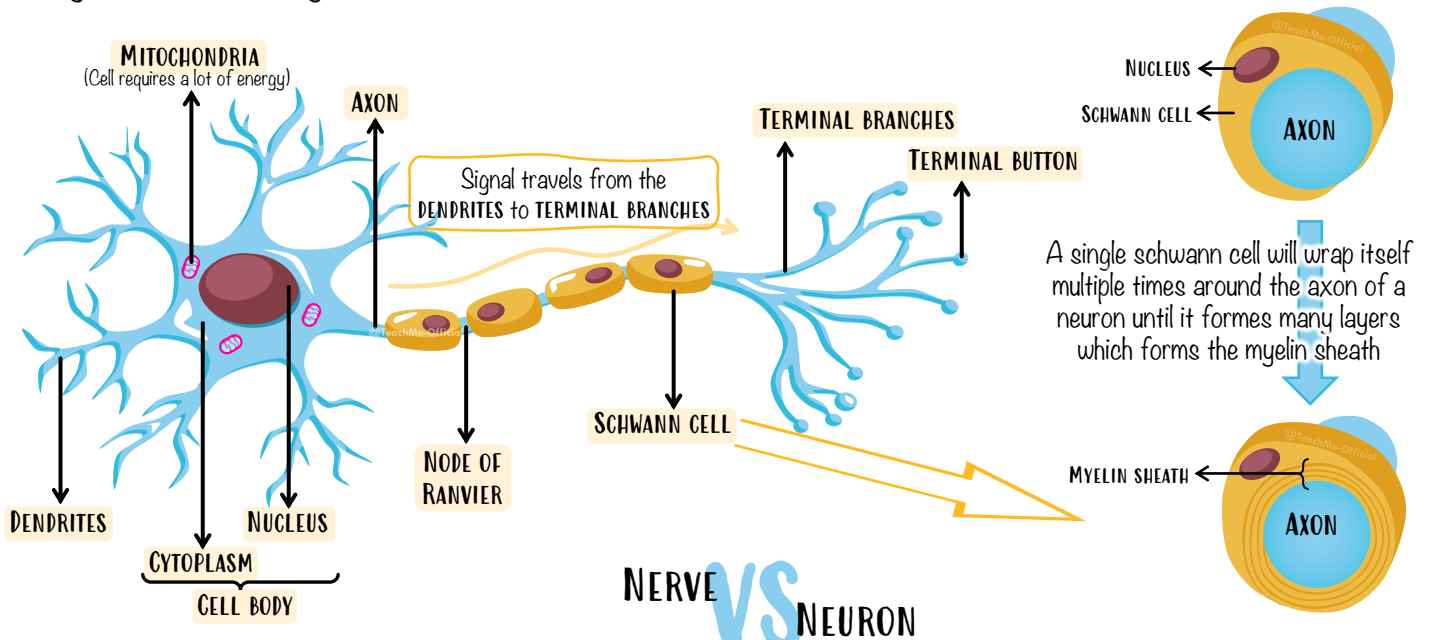
- Motor neurons
 - Sensory neurons
- } Peripheral nerves

PURPOSE:

- Carry info away from CNS towards muscle
- Carry info into the CNS

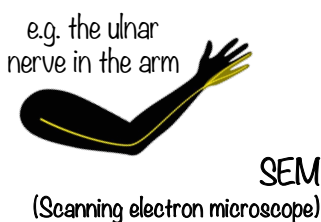


NEURON – An individual cell that carries electrical impulses (signals) from one point in the body to another. Some neurons are long (1 meter) some very short (<1 millimeter).

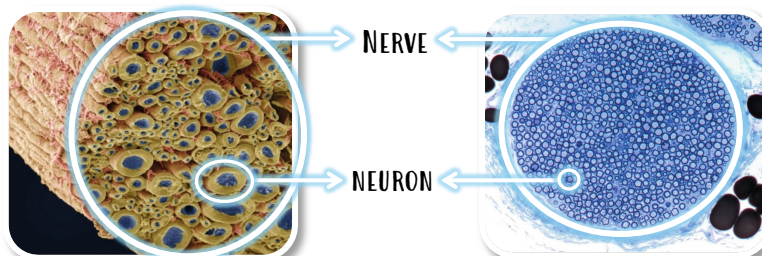


NERVE VS NEURON

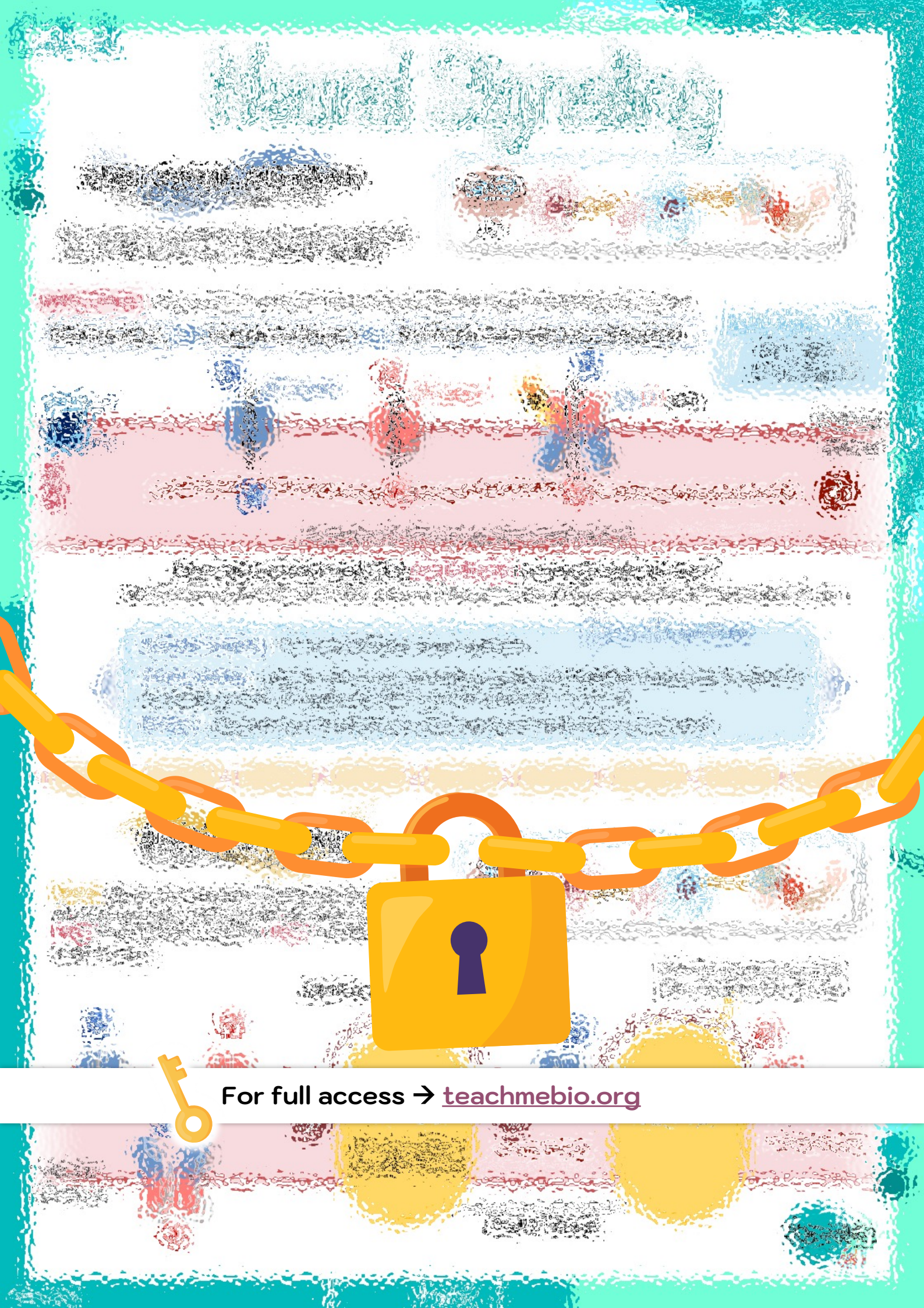
A bundle of many individual **NEURONS** grouped together forms a **NERVE**.



Blue = Axons
Yellow = Myelin Sheath



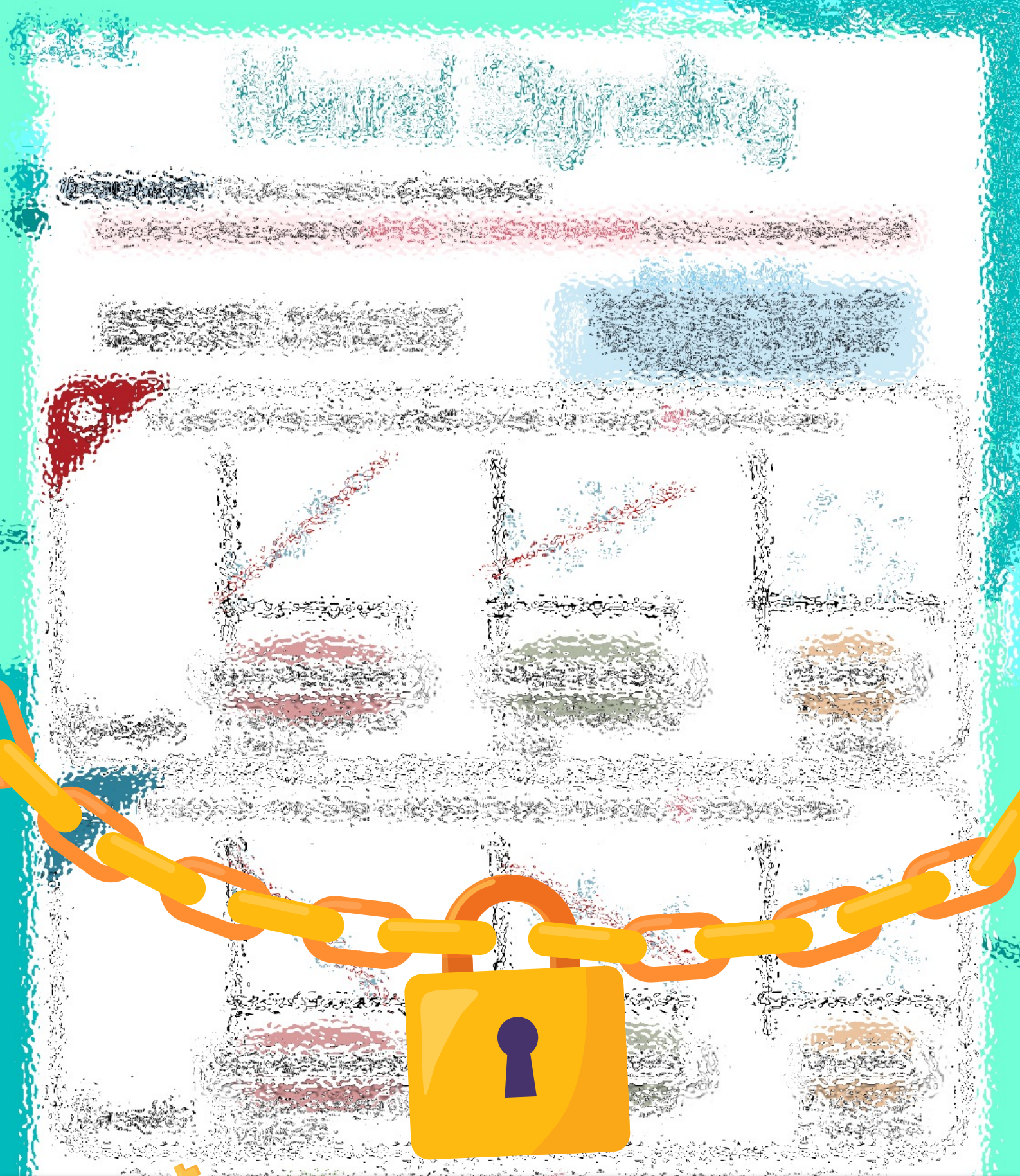
Light Microscope



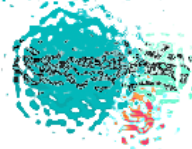
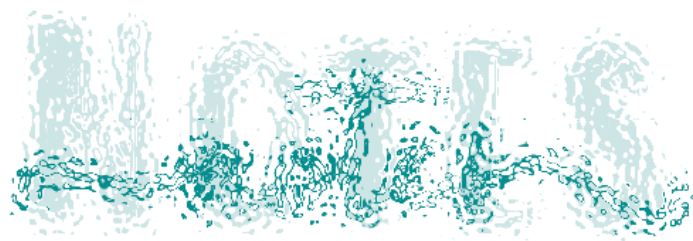
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