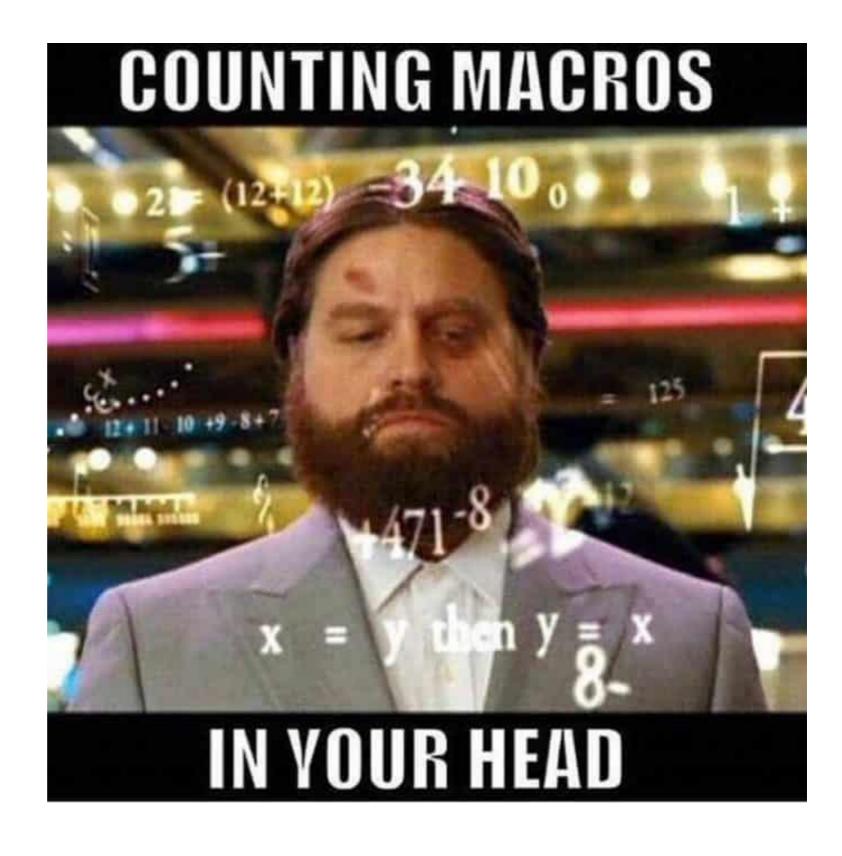
### **U.S. PAIN** FOUNDATION

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# Our Body is Our Castle Christine Sotmary

**NUL** 

### What are Macros?







Protein

Ioni Bellemont

#### BRAIN

Proteins make up neurotransmitters, which help brain cells communicate with each other.

#### MUSCLES

Protein is key for the growth and repair of muscle cells after physical activity. More muscle helps burn more calories at rest.

#### I M M U N E System

Antibodies are proteins that help protect the body from viruses and bacteria.

#### **INSIDE OUR CELLS**

Proteins make up enzymes, which catalyze numerous biochemical reactions aiding digestion, muscle and nerve function and even breathing.

#### HAIR, SKIN AND NAILS

Keratin is a type of protein that provides structure to hair, skin and nails.

#### BLOOD

Hemoglobin is a protein in blood that carries oxygen to the body's tissues.

#### HORMONES

Protein helps make up most of the body's hormones, which have important functions for reproduction, growth and development and appetite regulation.

#### TENDONS, BONES AND LIGAMENTS

Collagen and elastin are types of protein that provide structure to bones, tendons and ligaments.

### Protein:

Animal sources Plant sources "Complete Protein" Proper Serving

- Men: 6-8oz
- Women: 4-6oz
- Snacks: 2-3oz



Carbs

orn Bellemont

#### BRAIN

When the body breaks down carbs, much of it is used to fuel the brain. Consuming a low-carb diet may impair memory and cognitive function.

#### GUT -

Fiber from carbs promotes regularity and a healthy and diverse gut microbiome, which supports the immune system.



Refined, simple carbs can spike blood sugar quickly, while complex carbs help maintain even blood sugar levels.

#### • HEART

Dietary fiber found in complex carbs helps maintain healthy cholesterol levels and reduces the risk of cardiovascular disease.

#### MUSCLES

The body stores carbs in the form of glycogen here, which can be used for energy later, and is essential during prolonged physical activity.

### Carbs:

Fiber Nutrient density

Fruit & Veg vs Grains & Potatoes

Glycemic Index Glycemic Load

Veg Servings: 8-12/day Fruit Servings: 1-2/day



Fat

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#### BRAIN

Fat is important for brain development, memory, cognition and the production of neurotransmitters.

#### HORMONES

Fat aids in the production of estrogen, testosterone, growth hormone and more.

#### ORGANS

Fat helps insulate and protect our organs (e.g., kidneys, heart, lungs, intestines, liver, etc.) from damage.

#### **BODY TEMP**

Fat helps regulate body temperature and keeps the body warm.

#### HEART

Omega-3 and omega-6 fatty acids are heart-healthy, helping lower cholesterol.

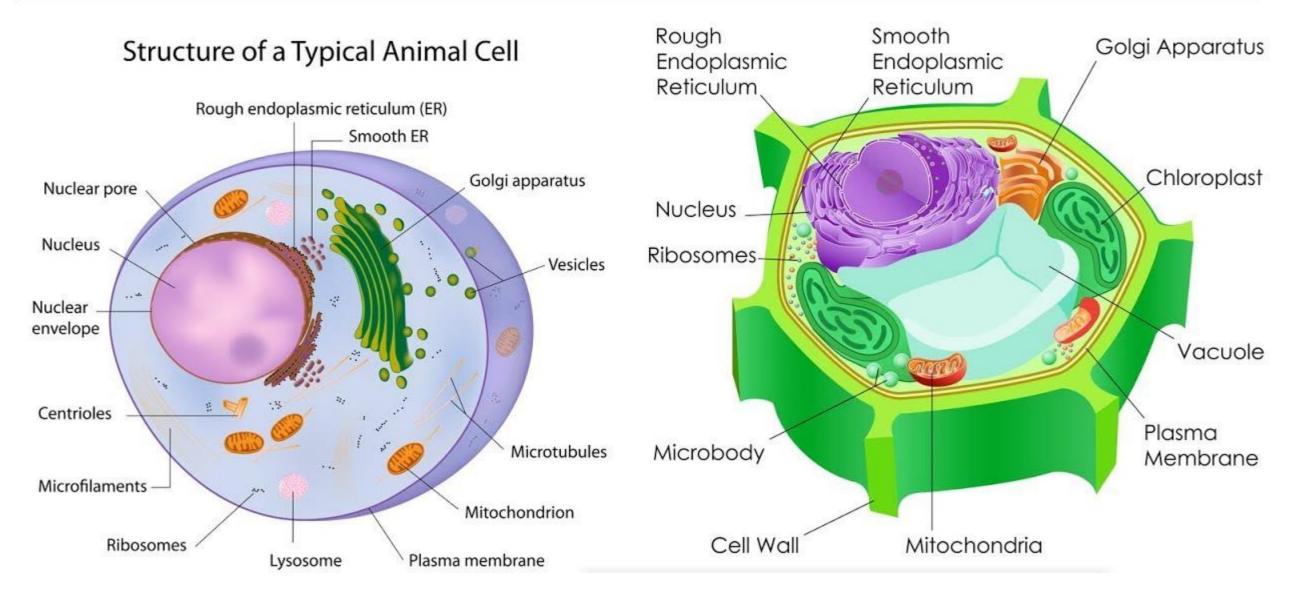
#### SKIN

The essential fatty acids help keep skin hydrated, smooth and reduce redness.

#### GUT

Fat aids the absorption of important fat-soluble vitamins A, D, E and K in the small intestine.

# The Cell Structure



### Fats:

Saturated Unsaturated

- Mono

- Poly

Trans fats (hydrogenated, hydrolyzed, fractionated)

Sources Servings: 2-3/day Serving Size: ½ avocado, 1 TBSP oil



Micros

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# Eat the Rainbow

# Build a Meal Build a Snack

# We're also Human

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