U.S. PAIN FOUNDATION

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Our Body is Our Castle Christine Sotmary

NUL

What are Macros?







Protein

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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

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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.

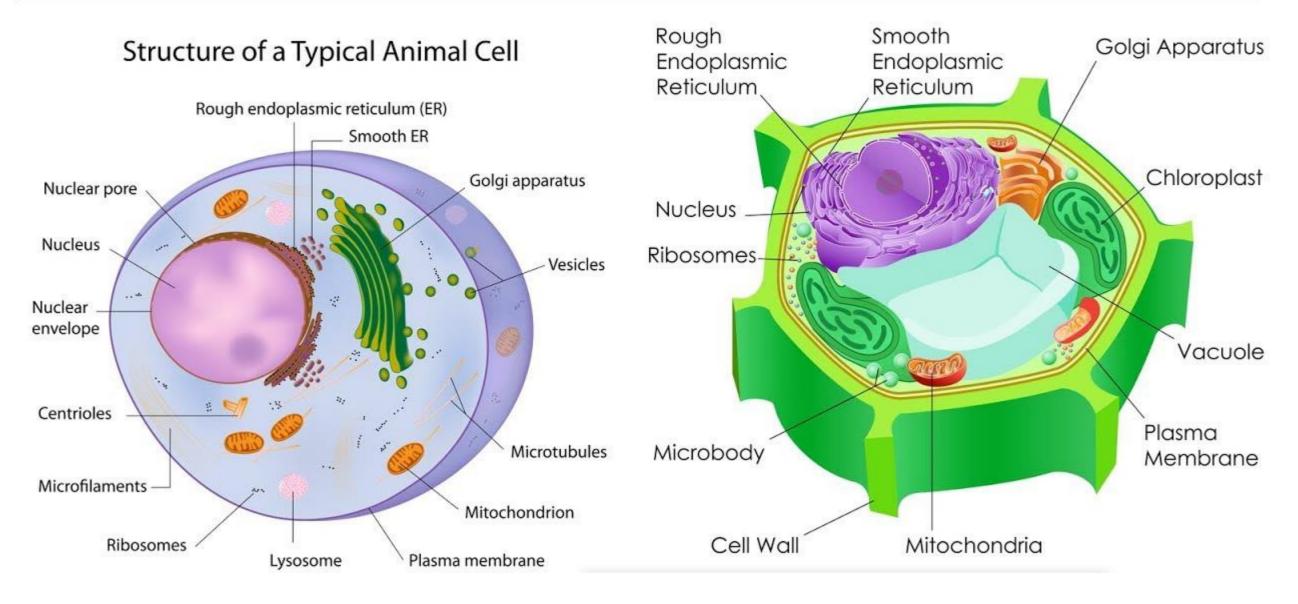
SKIN

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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