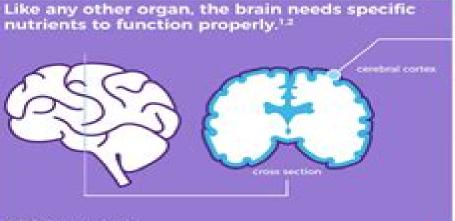
## Role of nutrients in brain structure and function



Adult human brain:

weight.

1.4 kg total energy expenditure



550% Lat

dry weight!

Neurons form a communication network by connecting with each other through junctions called synapses.<sup>1</sup>

Average rurniber of neurons in the brain's

86,000,000,000



Nutrients are involved in many different synaptic processes, such as neurotransmitter and phospholipid synthesis.!

Several content of the less moderates in the content of the conten

Estimation of total number of symanes in the

60-240 trillion

Phospholipids are major building blocks of grouptic membranes.

Total membrane surface area in the brain?:

4x



MILE

Phosphologica are made from regested nutrierra, e.g. Disk, unders shortes future.

propagation against temperature,"

50%



## The brain needs lifelong nourishment to maintain its structure and function and to help ensure optimal cognitive performance.

#### Choline

precursor for the neurotransmitter acetylcholine.

#### Vitamin B6

cofactor in the synthesis of the neurotransmitters serotonin, dopemine, and noradrenaline.

#### Vitamin C

cofactor for synthesis of the neurotransmitter noradrenaline.

#### Enlate

essential in the one-carbon metabolism, which is involved in the synthesis of neurotransmitters and phospholipids.

#### Tryptophan

precursor for the neurotransmitter serotonin.

### DHA

docosahexaenoic acid, an omega-3 polyunsaturated fatty acid present in neuronal membranes and which influences membrane-related processes such as neurotransmission.

#### Vitamin E

antioxidant that protects cell components. like the neuronal membranes, from oxidation by free radicals.

#### Tyrosine

precursor for the neurotransmitters dopamine and noradrenaline.

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# **Nutrients And Brain Function**

**CL Gary** 

**Nutrients And Brain Function:** 

The book delves into Nutrients And Brain Function. Nutrients And Brain Function is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and indepth insights into Nutrients And Brain Function, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
  - Chapter 1: Introduction to Nutrients And Brain Function
  - Chapter 2: Essential Elements of Nutrients And Brain Function
  - Chapter 3: Nutrients And Brain Function in Everyday Life
  - Chapter 4: Nutrients And Brain Function in Specific Contexts
  - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Nutrients And Brain Function. This chapter will explore what Nutrients And Brain Function is, why Nutrients And Brain Function is vital, and how to effectively learn about Nutrients And Brain Function.
- 3. In chapter 2, the author will delve into the foundational concepts of Nutrients And Brain Function. This chapter will elucidate the essential principles that need to be understood to grasp Nutrients And Brain Function in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Nutrients And Brain Function in daily life. The third chapter will showcase real-world examples of how Nutrients And Brain Function can be effectively utilized in everyday scenarios.
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- 6. In chapter 5, the author will draw a conclusion about Nutrients And Brain Function. The final chapter will summarize the key points that have been discussed throughout the book.
  - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Nutrients And Brain Function.

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