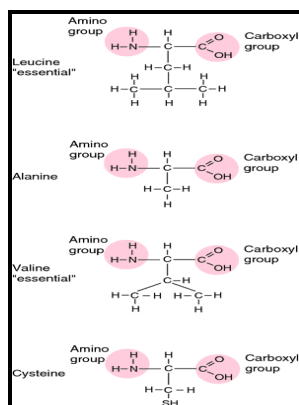


# Lombardini Role of Peptides and Amino Acids as Neurotransmitters

John Wiley & Sons Inc - Amino Acids & Brain Chemistry



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## The Role of Neurotransmitters

The presence of high concentrations of tyrosine in the locus coeruleus and the substantia nigra leads to increased melanin synthesis which confers on these brain regions a dark bluish coloration observable in brain sections. A deficiency in zinc or defects in pyridoxal kinase can lead to seizure disorders, particularly in seizure-prone pre-eclamptic patients hypertensive condition in late pregnancy. Epinephrine depends on the fight-or-flight response of our organism, which is activated in front of situations that we perceive as a threat to our physical or psychological integrity.

## Dietary amino acids and brain function

Anti-excitotoxic agents have been difficult to produce because a generalised inhibition of glutamate receptors, even for a short while, would have unwanted side-effects.

## The Role of Neurotransmitters

Dopamine  $\beta$ -hydroxylase is a critical vitamin C ascorbate and copper  $\text{Cu}^{2+}$ -dependent enzyme. Tyrosine for the treatment of depression.

## Amino Acids & Brain Chemistry

The H 1R protein is encoded by the HRH1 gene, the H 2R protein is encoded by the HRH2 gene, the H 3R protein is encoded by the HRH3 gene, and the H 4R protein is encoded by the HRH4. In most cases, a larger precursor molecule called the prepropeptide is translated into the original amino acid sequence in the rough endoplasmic reticulum.

## Amino Acids & Brain Chemistry

The reaction catalyzed by GTP cyclohydrolase 1 GTPCH is considered the rate-limiting and committed reaction of BH<sub>4</sub> synthesis. However, the level of creatine synthesis in the embryonic nervous system is not sufficient for needs and so the developing brain requires maternally and peripherally synthesized creatine.

## **Neuropeptide**

During that period, cognitive tests can be performed to observe the effects of these neurotransmitter deficits. A specific mechanism exists to remove the chemical from its site of activation after its work is done. Serotonin is packaged into vesicles by the vesicular monoamine transporter similar to the other monoamine neurotransmitters: dopamine and norepinephrine.

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