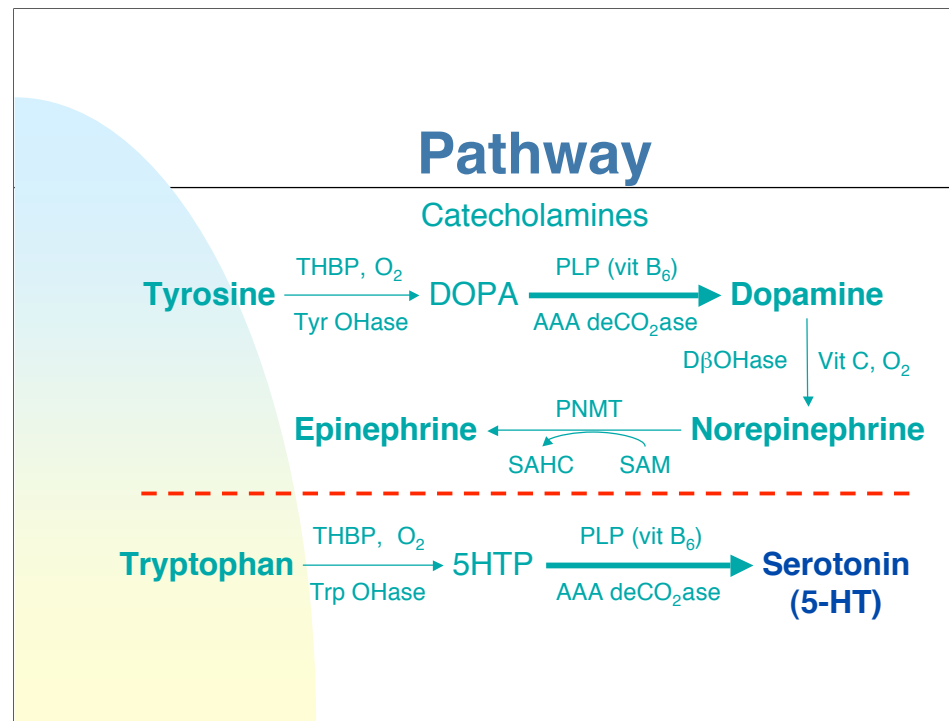


PLP: pyridoxal phosphate
deCO₂ase: decarboxylase



THBP: tetrahydrobiopterin

TyrOHase: tyrosine hydroxylase, Fe-dependent

DOPA: dihydroxyphenylalanine

PLP: pyridoxal phosphate

AAA deCO₂ase: aromatic amino acid decarboxylase

DβOHase: dopamine β-hydroxylase, Cu-dependent

Vit C: vitamin C, ascorbic acid

PNMT: phenylethanolamine-*N*-methyltransferase (the degradation enzyme is catechol-*O*-methyltransferase, acts on norepinephrine and epinephrine)

SAM: *S*-adenosylmethionine

SAHC: *S*-adenosylhomocysteine

TrpOHase: tryptophan hydroxylase, Fe-dependent

5HTP: 5-hydroxytryptophan

5-HT: 5-hydroxytryptamine (serotonin)

Review Questions

- **How are neurotransmitters synthesized (substrates, enzymes, coenzymes, cofactors)?**