

#ret #incomplete

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## 1 | SNP. Project. Write-up.

Resources: [\[\[KBxSNPPCR\]\]](#) Instructions

### 1.0.1 | Part One

#### Outline

- basics
- function and regulation
- SNP effect

#### Writing!

The *COMT* gene, or catechol-O-methyltransferase, encodes the *COMT* enzyme which is responsible for breaking down neurotransmitters in the brain's prefrontal cortex. More specifically, it acts as a catalyst for the transfer of a methyl group from S-adenosylmethionine to dopamine, epinephrine, and norepinephrine. This process, called O-methylation, leads to the degradation of the aforementioned neurotransmitters. The *COMT* enzyme also affects the metabolism of exogenous substances, but that is irrelevant for the mutation at hand citation. The *COMT* gene itself is 27.22kb long and located on chromosome 22q11.2 citation.