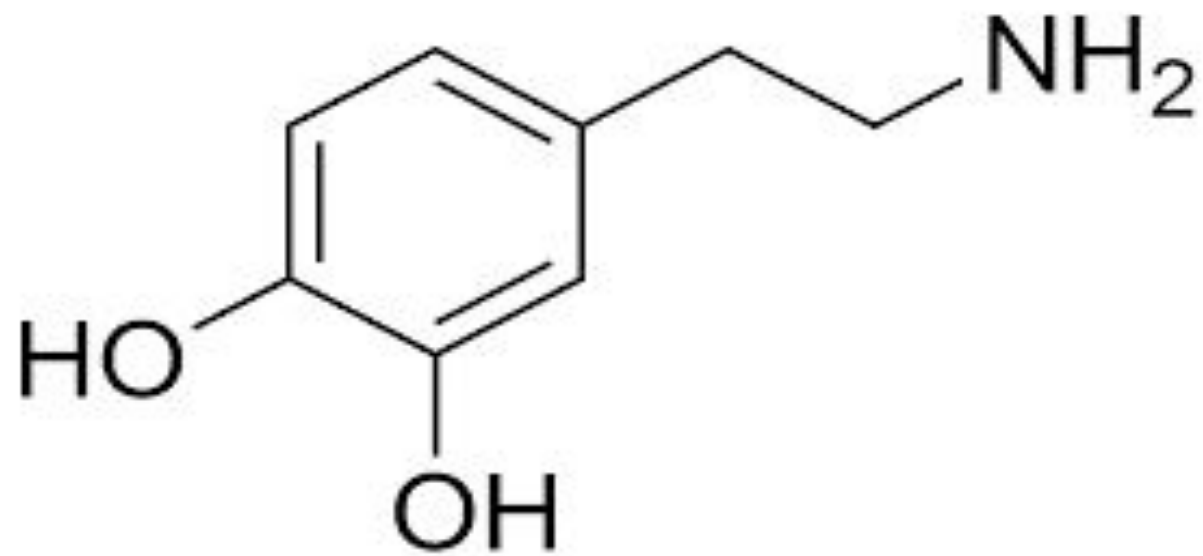


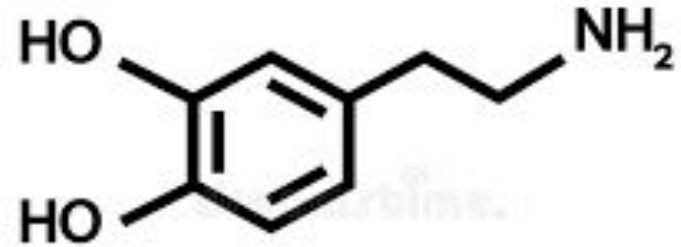
DOPAMINE: HOW DOES IT AFFECT US?

Vielka Inoa



Dopamine

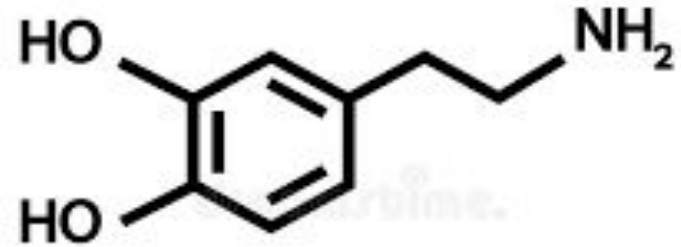
Dopamine is a neurotransmitter produced in the hypothalamus of the brain, created by the decarboxylation of tyrosine and L- Dopa.



dopamine

Dopamine

Dopamine plays a vital role in many physiological functions including mood, movement, memory, reward pathways and motor control.



dopamine



So what does this mean?



Impacts

- neurological and neuropsychiatric disorders,
- Schizophrenia
- Tourette syndrome
- OCD
- drug addiction
- Many of the drugs used to treat these disorders target dopamine receptors.



LOW DOPAMINE:



Depression

Poor
concentration

Tremors

Memory
loss



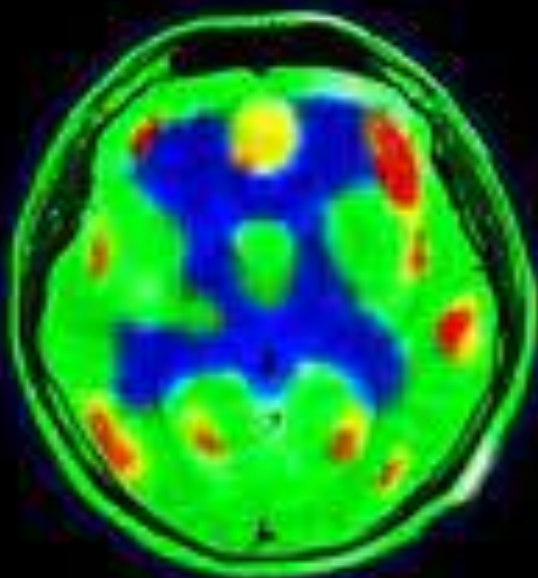
How do we measure dopamine?

One way to measure dopamine levels is to use a mouse line that expresses a fluorescent dopaminergic reporter, DAT-Ai14, to assess levels of dopaminergic signaling using a transgenic approach to label boutons.

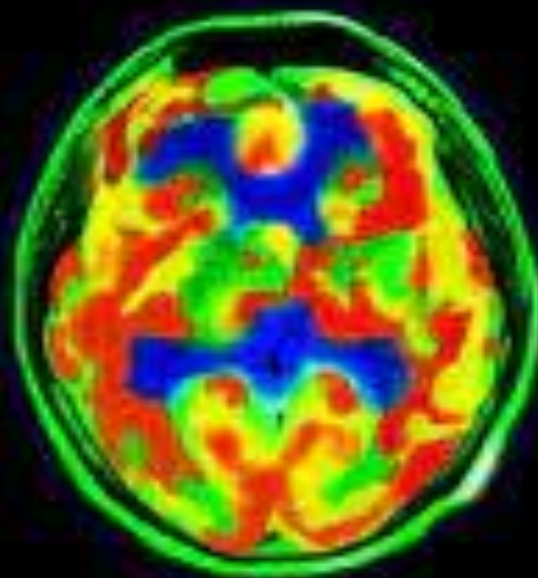
This lights them up like little stars as we can see here..



Before



After



HIGH DOPAMINE:

Addiction



Poor Impulse
Control

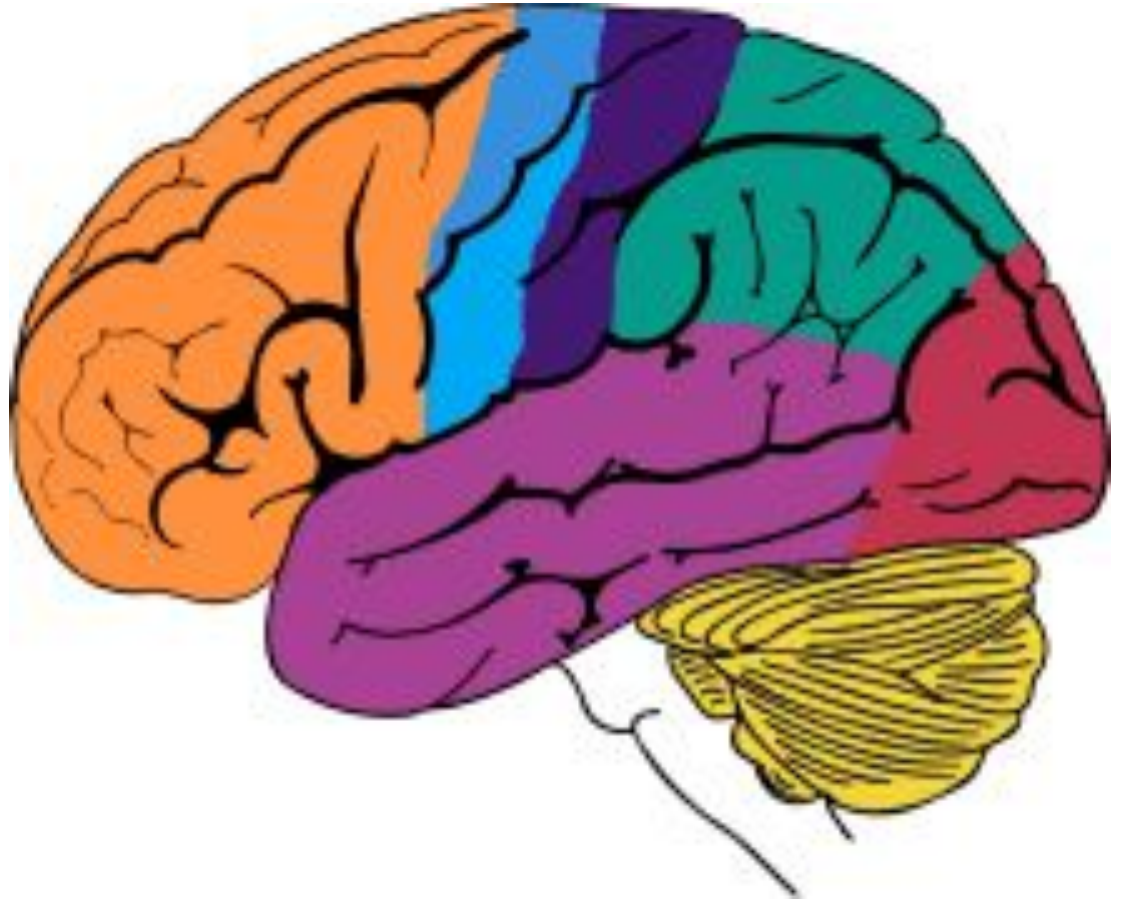
Aggression



gambling

Future Impacts:

- chemical synthesis of dopamine is pivotal for neurological and psychiatric disorders.
- It could be the answer to the future cure for alzheimer's
- Eradicating adhd medication or “uppers” dependencies



JUST *BREATHEEE..* AND LET
YOUR DOPAMINE LEVELS
CHILL!

- Thank you