

Meet the Ambassador

I am Anna Sofia Crews. I am a junior at James Island Charter High School. I am interested in the STEM field and have had an astounding time working with my mentor, Ms.Browning, and this program. I am fluent in Spanish and proud of my hispanic background. In my free time I love to open up a book at the beach or enjoy some time painting.







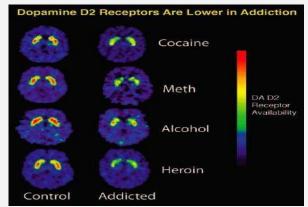


Research Exploration

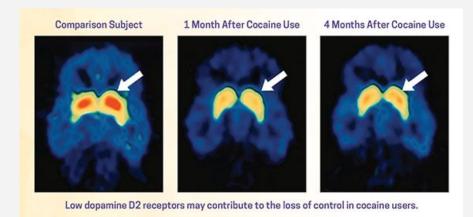
- The amount of illicit drug use has gone down since 2020
 - many factors can play into this including the pandemic or lack of access
 - This shows the group were researching (substance abuse) and the a recent time frame
 - https://nida.nih.gov/drug-t opics/trends-statistics/moni toring-future
- Substance drug abuse correlated with with childhood traumatic experience and PTSD
 - trauma can have an impact on the neurotransmitters thus increasing the risk of substance abuse
 - People with a early traumatic experience are more vulnerable to substance drug abuse due to the change in neurotransmitters that were affected by trauma
 - https://www.ncbi.nlm.nih.gov/p mc/articles/PMC3051362/

- There are different neurotransmitters affected by substance abuse and certain neurotransmitters can increase the risk of substance abuse
 - each transmitter can be affected differently depending on drug
 - specifically monoamines and neuropeptides are found with correlation in substance abuse
 - http://web.mit.edu/zakf/www/drugchart/d rugchart11.html
 - https://www.ncbi.nlm.nih.gov/pmc/articles /PMC3956107/

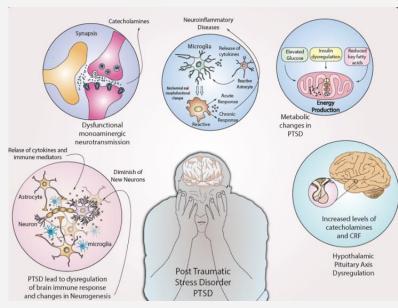
Brain Scans of substance abuse effect on dopamine D2 receptors



nidas-newest-division-mines-clinical-applications-basic-research



Breakdown of neurotransmitters affected from trauma



https://www.mdpi.com/2077-0383/ 9/9/2951/htm

drug-misuse-addiction

Thank You!!

I could not be more thankful for my Mentor and all the inspiring people in this program. I have expanded my mind and knowledge. I look forward to the internship in the fall and all the other paths this will lead too.

