

Submitter Name: Hannah M. Cates  
Submitted Email: [hcates@adelphi.edu](mailto:hcates@adelphi.edu)

## **Using published datasets to study the role of lncRNA in substance use disorders**

Hannah M. Cates<sup>1</sup>

<sup>1</sup>Biology Department, Adelphi University

As the cost of sequencing has become more manageable, neuroscientists have generated countless large datasets. These datasets include genome-wide association studies, RNA sequencing, ChIP sequencing, along with many others. Each of these studies are beneficial to the field as a whole, but in nearly every case there is much more information to be gleaned from further analysis. My lab seeks to utilize published datasets from animal models and human studies to develop and test hypotheses on the role of long-noncoding RNA substance use disorders. Here, I will show the beginning of this process. First, we are collating and organizing the myriad available datasets to determine what questions can be asked of the data. Additionally, we have a set of tools that we are going to be working with and will surely add to over time. Some preliminary data shows the types of analysis that can be performed and the future questions we will endeavor to answer.