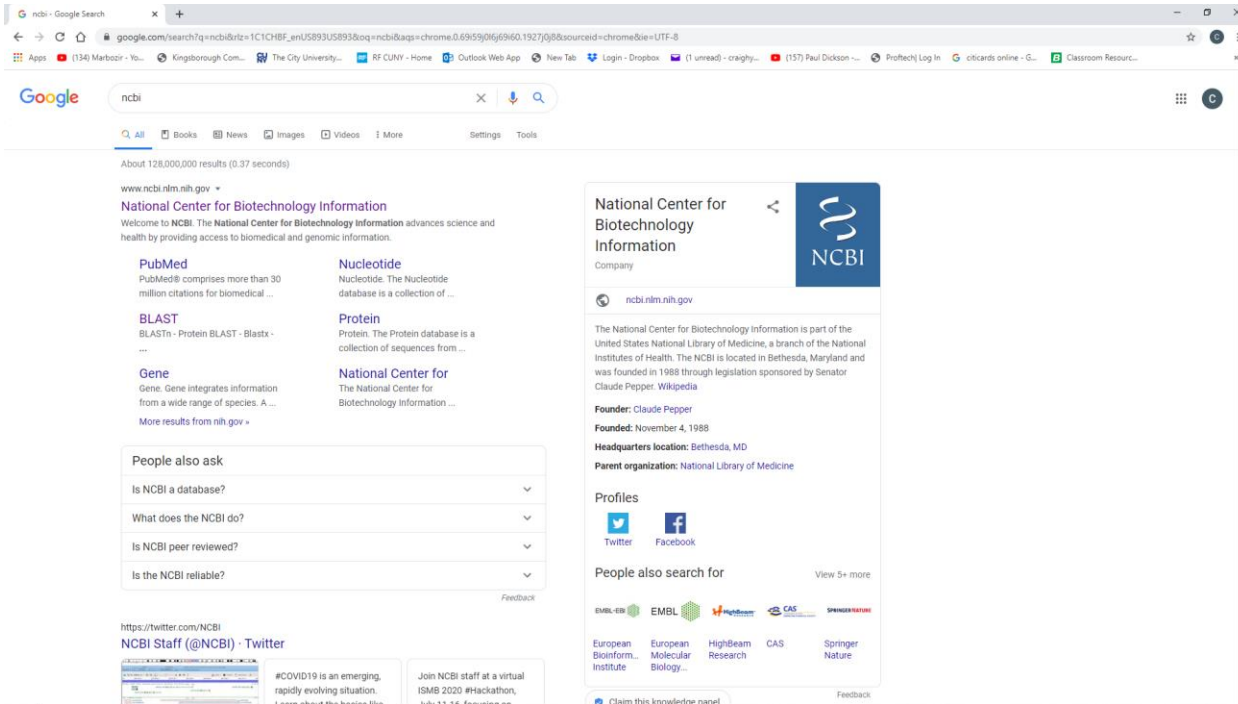
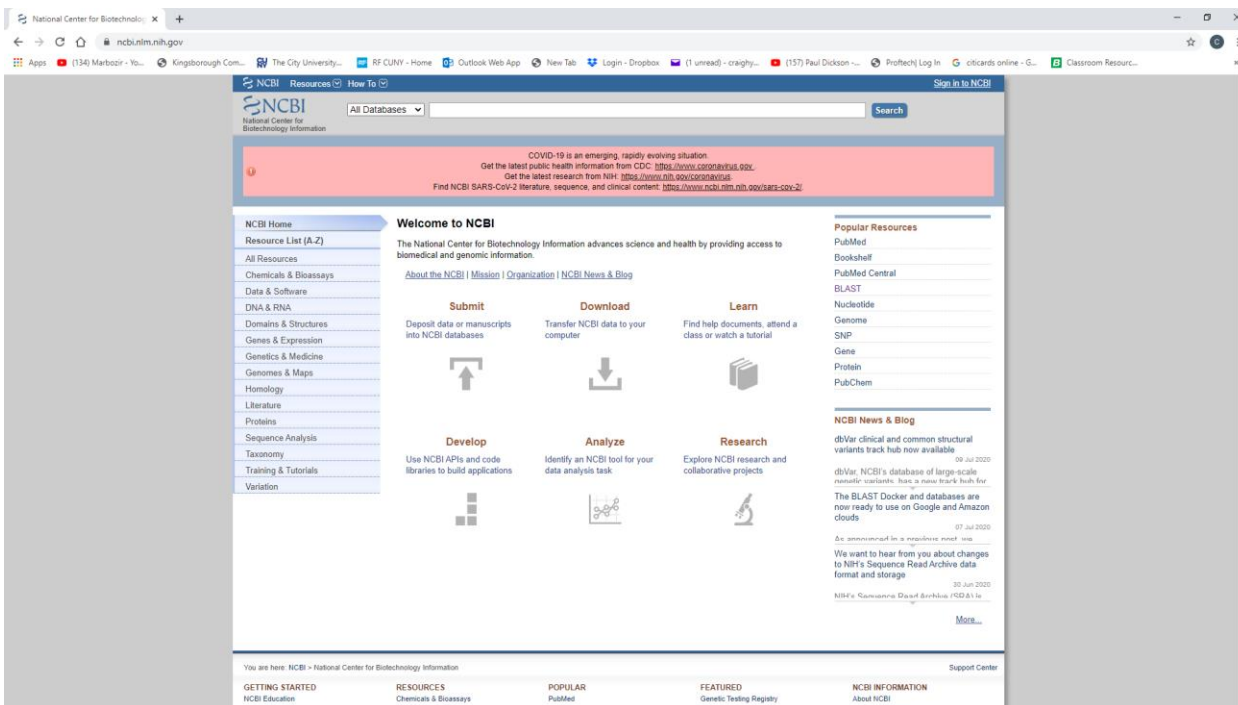


NCBI Database Search for DNA, RNA, or Protein Sequences

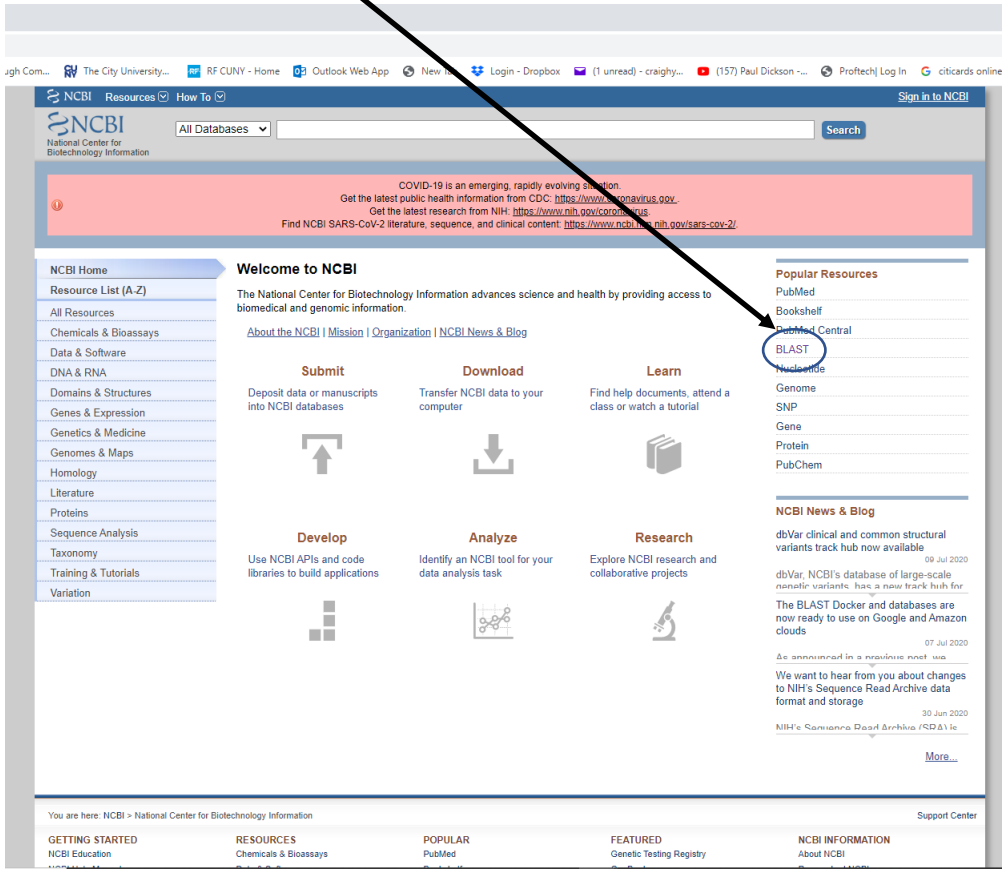
1. Open a web browser such as Google Chrome
2. Search using the term “NCBI”



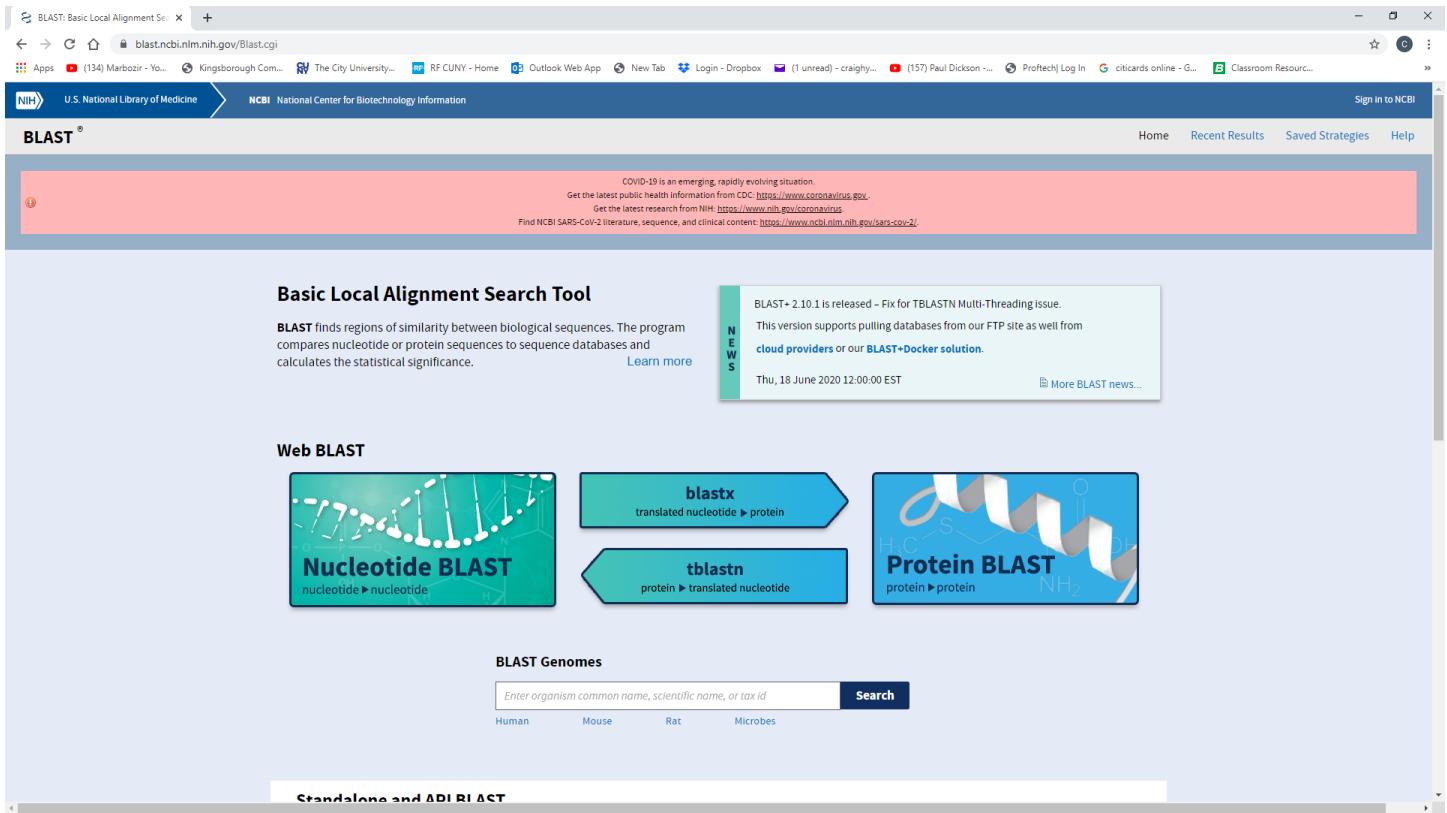
- a. NCBI stands for the National Center for Biotechnology Information
 - b. It contains DNA, RNA and Protein sequences that scientists have determined and deposited in the database at NCBI.
3. Click on the link “National Center for Biotechnology Information” to open the webpage.



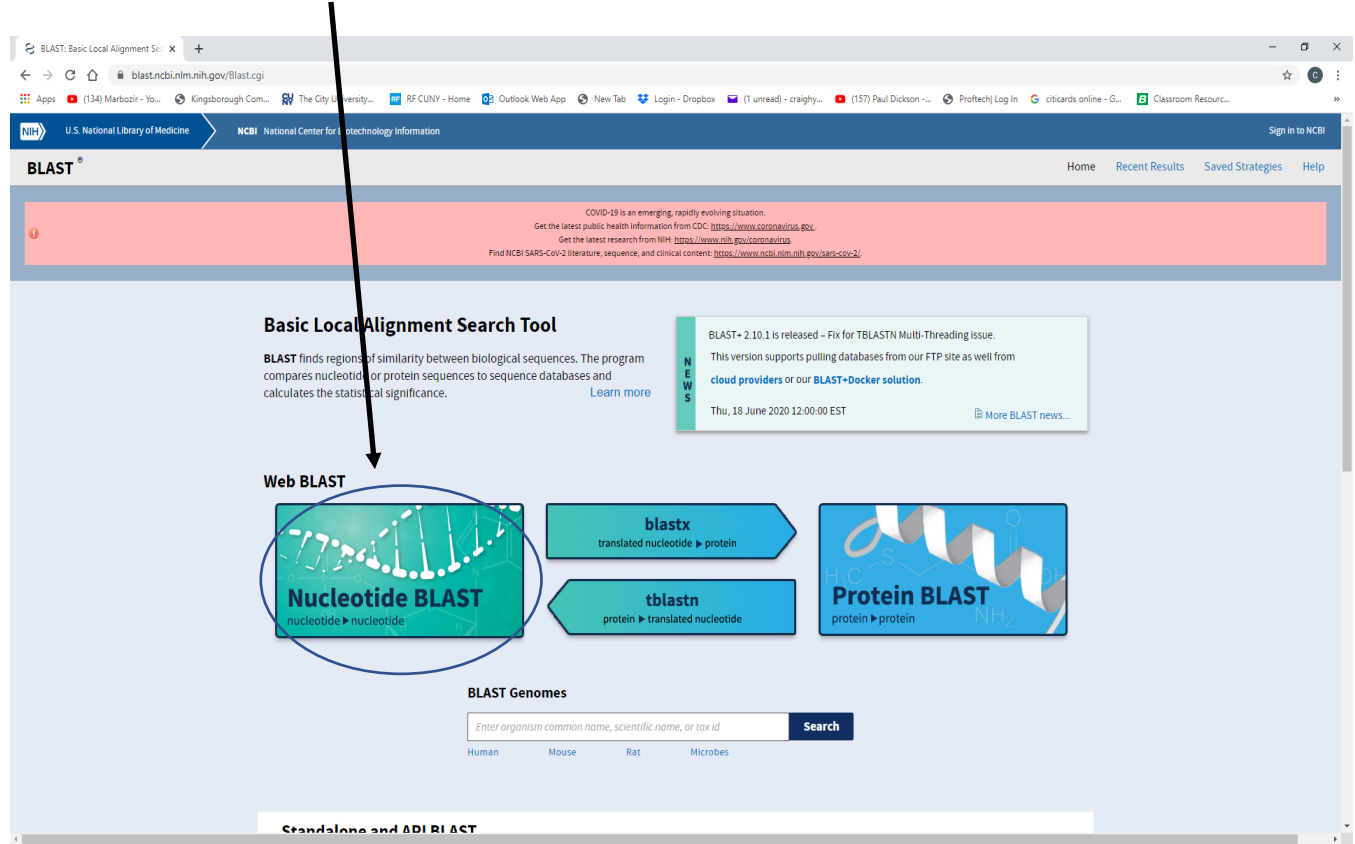
4. Perform a search using a DNA (or RNA) sequence using BLAST (Basic Local Alignment Search Tool).
- a. Click on the link “BLAST”



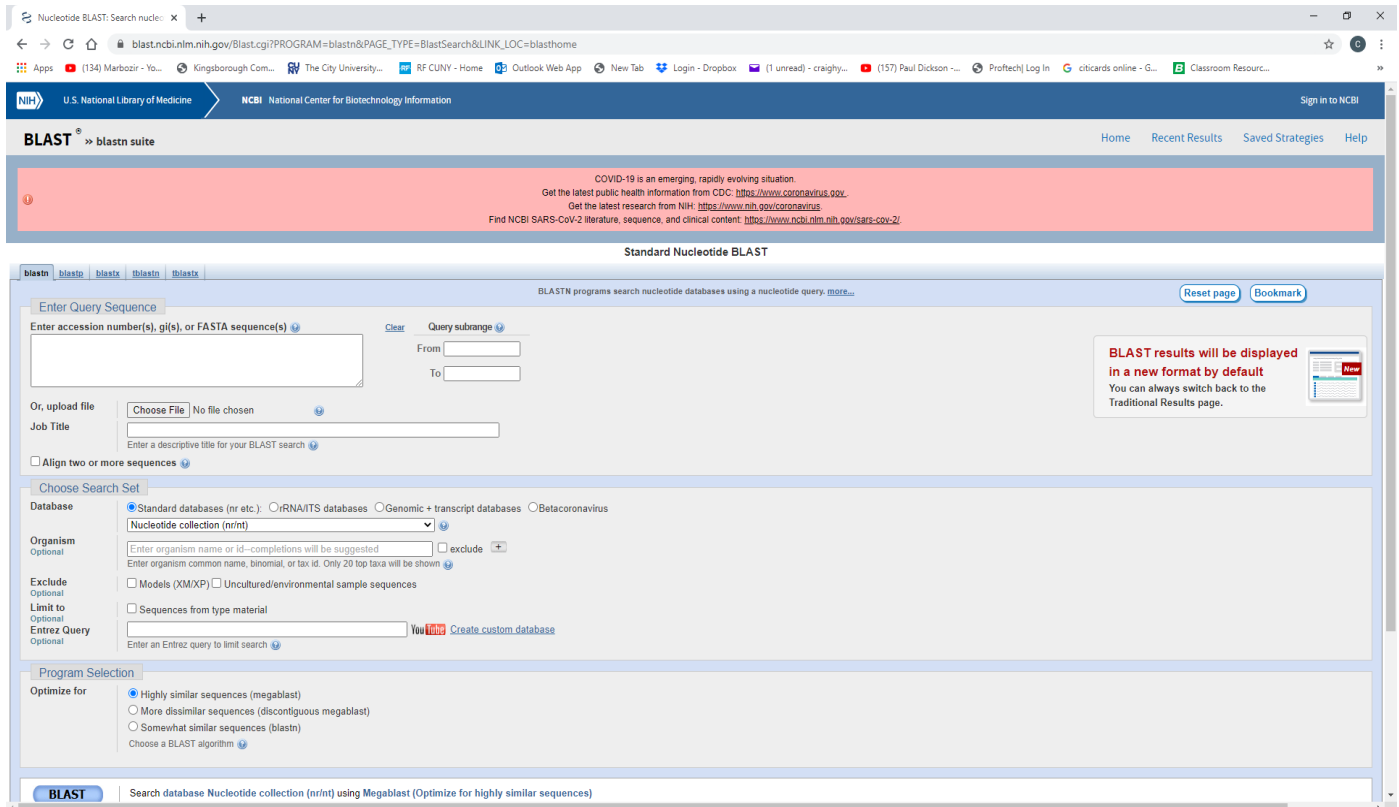
- b. This should open the webpage to choose a search program.



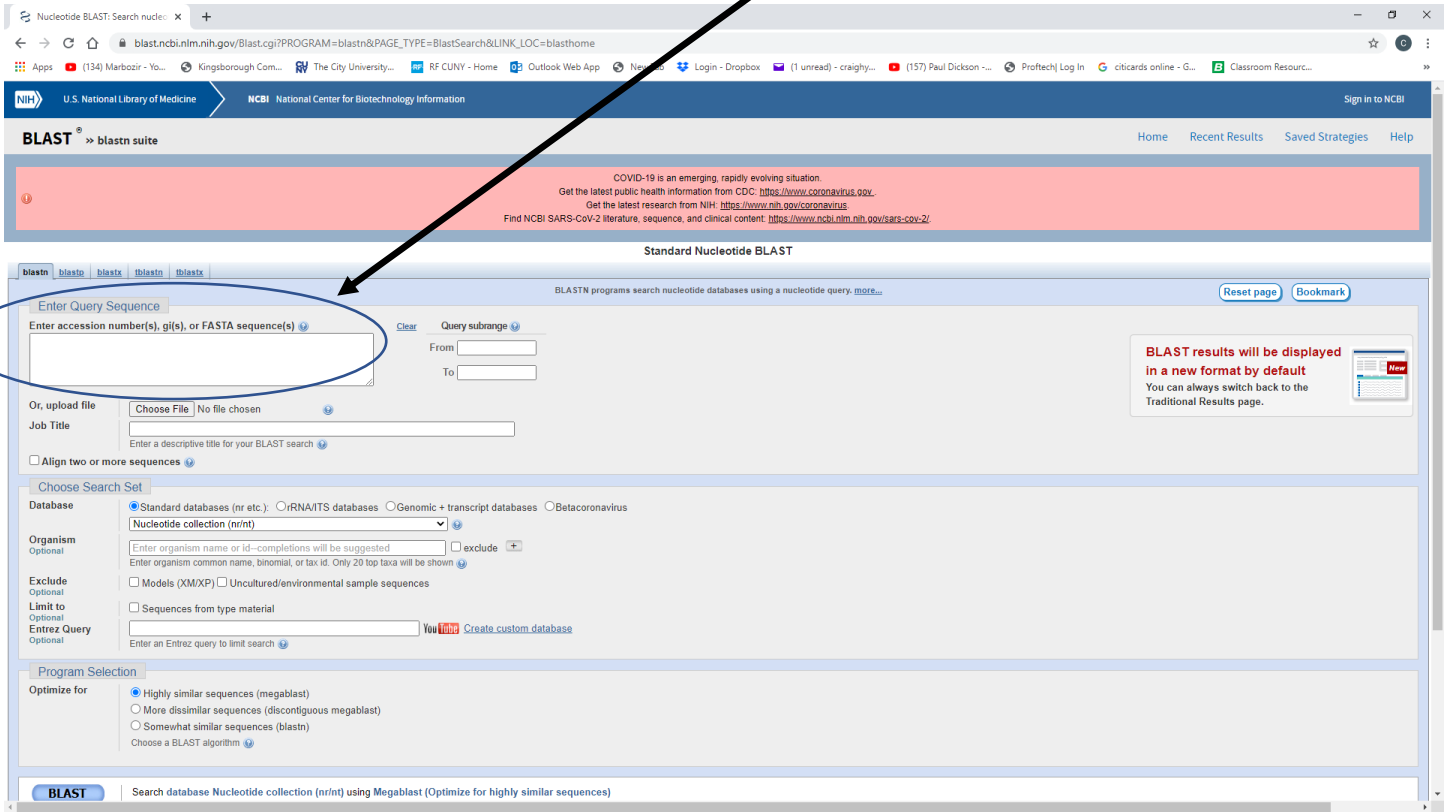
c. Click on “Nucleotide BLAST”.



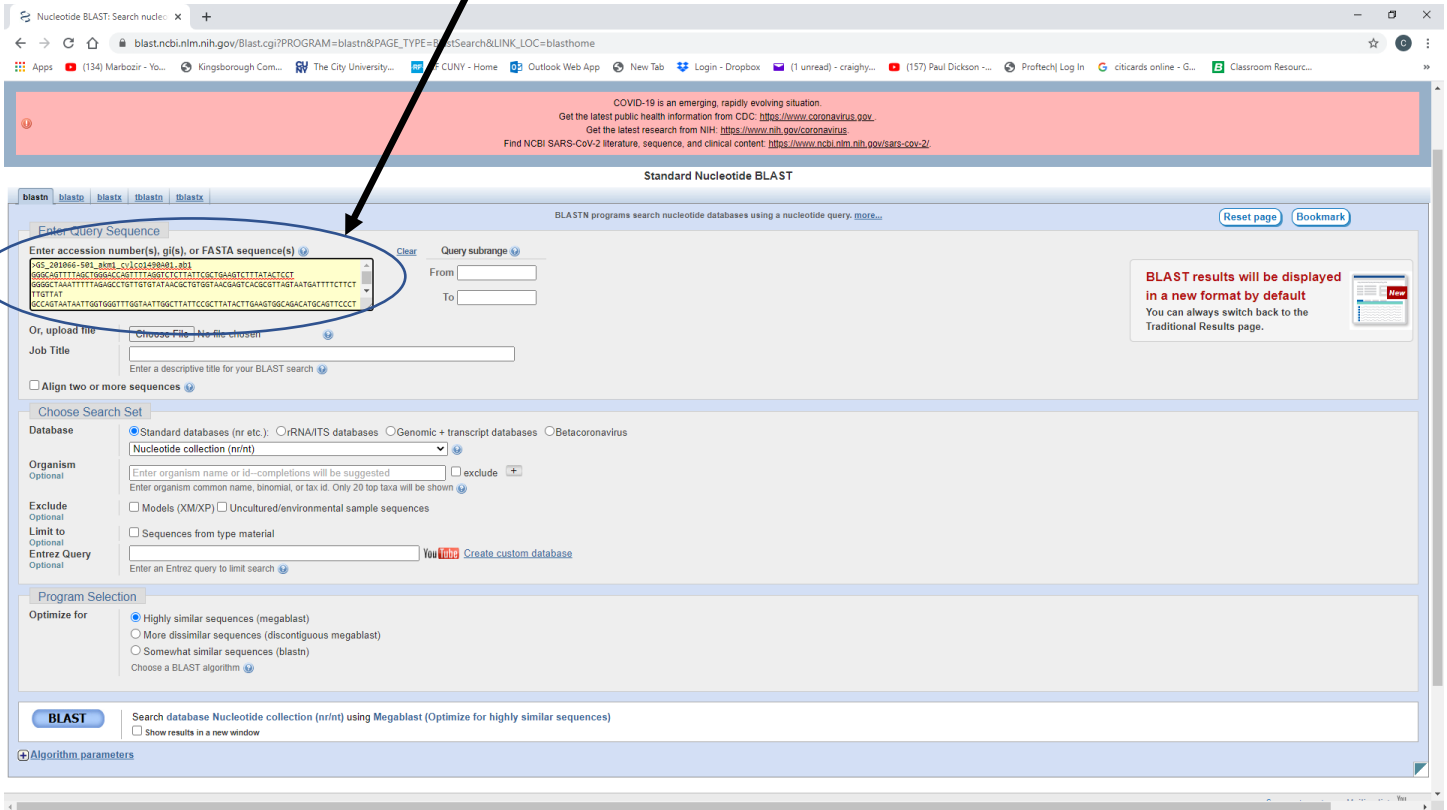
d. You should get a search screen like this:



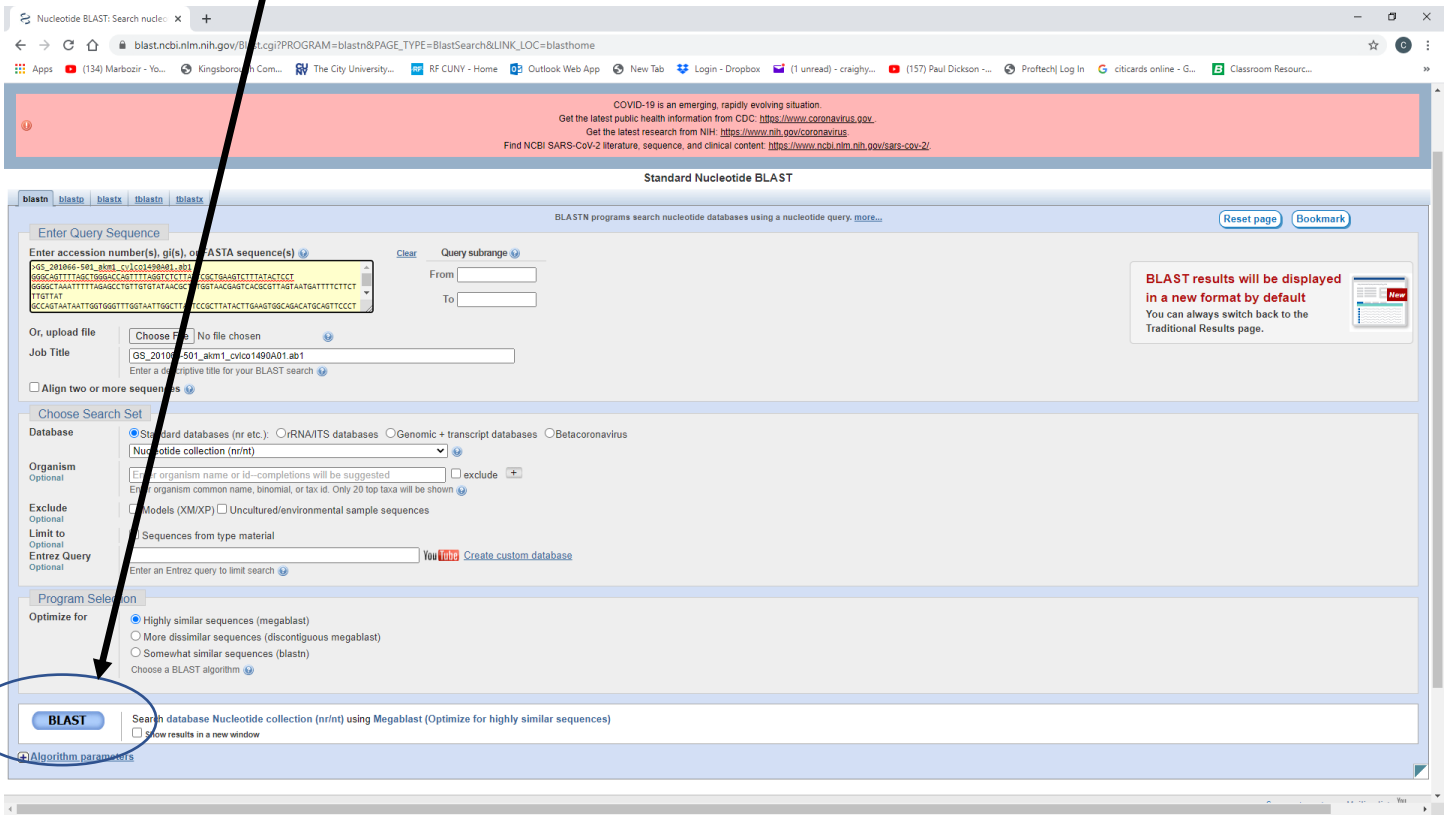
e. Paste your sequence into the search box that says “Enter Query Sequence”.



f. Here I have pasted a sequence for part of the cytochrome c oxidase I gene from an eastern oyster (*Crassostrea virginica*).



g. Click the “BLAST” button at the bottom of the page to start the search.



h. Here are the results of my search. I will explain how to interpret these results in a separate document.

