

## Bioinformatics Lab Standalone BLAST

<https://www.ncbi.nlm.nih.gov/books/NBK279671/>

<https://www.ncbi.nlm.nih.gov/guide/howto/run-blast-local/>

### On Linux:

Run standalone blast -

```
>cd /home/tools/blast/bin
```

bin directory contains all the programs;  
doc directory contains all documentary files for help;  
data directory contains all data – scoring matrix and vector sequences;  
db directory contains all database.

Example for performing blastx

```
>cd /home/tools/blast/bin
```

```
>./blastall -p blastx -d ../db/refseq_protein -i your_DNA_file -e 1e-5 -v 5  
-b 5 -o /home/bioinfo/your_output.blx
```

How to format database - in the bin directory

For DNA: 

```
>./formatdb -i ../db/your_DNA_data -p F -o T
```

For protein: 

```
>./formatdb -i ../db/your_proteins_data -p T -o T
```

Help for set up Linux/Unix blast

<http://www.ncbi.nlm.nih.gov/books/NBK52640/>

### On Windows

```
C:\blast\bin>.blastx -query ..\BLAST_test.txt -db ../db\refseq_protein  
-out \testout.txt
```

Help for running blast on Windows:

<http://www.ncbi.nlm.nih.gov/books/NBK52637/>