

# Universidad Regional Amazónica IKIAM

## Bioinformática


### Evidencias de la actividad en GitHub

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Grupo: 01


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- Copiar las columnas "id", "eigenvector" y "betweenness" a "EigenBetw.tsv".

 MINGW64:/c/Users/TOSHIBA/Downloads/CSB-master/unix/bionfo

```
TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~  
$ cd Downloads/CSB-master/unix/bionfo/  
  
TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)  
$ cut -d "," -f 1,4,6 AgGCN1.0_properties.csv >> EigenBetw.tsv
```

- Bash Script 1

 MINGW64:/c/Users/TOSHIBA/Downloads/CSB-master/unix/bionfo

```
TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)  
$ nano tc2_ChangoJosue.sh  
  
TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)  
$ bash tc2_ChangoJosue.sh
```

Comando para escoger las primeras 7 filas

```
id,eigenvector,betweenness  
AGAP000002,0.008787135,2.91E-05  
AGAP000005,0.013750498,0.000171241  
AGAP000007,7.90E-06,0  
AGAP000008,0.000383447,1.22E-06  
AGAP000009,0.013802427,0.000654142  
AGAP000010,0.000101576,0
```

Comando para escoger las últimas 5 filas

```
AGAP029781,0.000987921,1.49E-05  
AGAP029784,3.45E-05,0.000155039  
AGAP029786,0.000146935,5.04E-05  
AGAP029787,9.99E-06,1.22E-07  
AGAP029789,0.001757408,0.001160083
```

```
TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)  
$ cat tc2_ChangoJosue.sh  
#!/bin/bash  
echo -e "\n"  
echo "Comando para escoger las primeras 7 filas"  
echo -e "\n"  
head -n 7 EigenBetw.tsv  
echo -e "\n"  
echo "Comando para escoger las últimas 5 filas"  
tail -n 5 EigenBetw.tsv
```

MINGW64:/c/Users/TOSHIBA/Downloads/CSB-master/unix/bionfo

```
GNU nano 6.2 tc2_ChangoJosue.sh
#!/bin/bash
echo -e "\n"
echo "Comando para escoger las primeras 7 filas"
echo -e "\n"
head -n 7 EigenBetw.tsv
echo -e "\n"
echo "Comando para escoger las últimas 5 filas"
tail -n 5 EigenBetw.tsv
```

- Seleccionar cuyo "id" termina en 5 y ordene por la columna "betweenness".

MINGW64:/c/Users/TOSHIBA/Downloads/CSB-master/unix/bionfo

```
TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)
$ nano tc2_ChangoJosue2.sh

TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)
$ nano tc2_ChangoJosue2.sh

TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)
$ bash tc2_ChangoJosue2.sh
```

Seleccionar cuyo id termina en 5 y ordene por la columna betweenness

```
TOSHIBA@DESKTOP-UDFJCR5 MINGW64 ~/Downloads/CSB-master/unix/bionfo (main)
$ cat EigenBetw5.csv
AGAP008795,0.000103152,0.000140994
AGAP009165,0.00010352,0.000359872
AGAP007475,0.000103595,0.000169592
AGAP003085,0.000103991,4.30E-05
AGAP029465,0.000105491,4.20E-06
AGAP012335,0.00010638,1.51E-07
AGAP001865,0.000106675,9.39E-05
AGAP013395,0.000107403,1.10E-06
AGAP001745,0.000107414,1.14E-05
AGAP003315,0.000108921,4.31E-08
AGAP007955,0.00010993,2.84E-06
AGAP012105,0.000110572,0.000113206
AGAP008885,0.000111171,7.19E-09
AGAP000815,0.000112274,3.96E-05
AGAP000015,0.000112631,4.18E-05
AGAP012295,0.000112978,9.64E-07
AGAP012865,0.000113244,5.30E-06
AGAP002455,0.00011495,1.63E-05
AGAP008525,0.000116183,7.19E-06
AGAP005055,0.00011652,0.000276245
AGAP009495,0.000118546,0.000104531
AGAP000445,0.000119093,0.000155039
AGAP028455,0.000119167,2.47E-06
AGAP013445,0.000120005,2.65E-06
AGAP002185,0.000120636,0
AGAP005855,0.000126044,4.03E-06
AGAP010985,0.000126404,5.99E-05
AGAP007215,0.000126839,1.36E-05
AGAP009975,0.000126886,1.98E-05
AGAP011905,0.000126937,7.27E-06
AGAP029365,0.000128362,6.11E-05
AGAP010935,0.000128412,3.83E-05
AGAP003165,0.000128485,1.29E-07
```

MINGW64:/c/Users/TOSHIBA/Downloads/CSB-master/unix/bionfo

```
GNU nano 6.2 tc2_ChangoJosue2.sh
#!/bin/bash

#Actividad 2
echo -e "\n"
echo "Seleccionar cuyo id termina en 5 y ordene por la columna betweenness"
echo -e "\n"
grep AGAP[0-9]*5, EigenBetw.tsv | sort -k 2 -t, -n > EigenBetw5.csv
```