

		16/1/20	17/1/20	18/1/20	22/1/20	23/1/20	24/1/20	4/1/20	5/1/20	6/1/20	16/1/20	9/1/20	10/1/20	10/1/20	12/1/20	13/1/20	17/1/20	18/1/20	21/1/20	5/1/21	6/1/21	9/1/21	10/1/21	19/1/21	20/1/21	22/1/21	22/1/21	12/2/21	15/2/21	16/2/21	17/2/21	
1.	Arsha K Anesh	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2.	Athulya Mathan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3.	Sreelakshmi	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4.	Malavika S Adnan	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5.	Nithya PP	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
6.	Souparnika NY	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
7.	Akhila M	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
8.	Akshaya EP	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
9.	Aleena Elizabeth	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10.	Amrutha CK	/	/	/	/	/	/	/	/	/	a	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11.	Anagha Biju	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12.	Anjali Jagrati	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
13.	Anu Elizabeth	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
14.	Ardra C	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
15.	Ayana MP	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
16.	Breegum Basma	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
17.	Dhanya M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
18.	Fathima Luthfi	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
19.	Fathima Safa	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
20.	Manjima M	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
21.	Neha K	a	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
22.	Nida fathima V	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
23.	Rafaela VM	/	/	/	/	/	/	/	/	a	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
24.	Rasha KP	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
25.	Veena Vijaya	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Teachers: Dr. Deena Mena Jose
 Dr. Minoo Divakaran
 Dr. Jathisha PI
 Ms. Pilly Peter A

REMEDIAL COACHING

36

3 BSC BOTANY 2020-21

Semester 5

Mode of teaching : Online (Gsuite platform)


Semester 6

37

	4/8/20	5/8/20	6/8/20	10/8/20	20/8/20	9/9/20	10/9/20	15/9/20	17/9/20	10/10/20	12/10/20	13/11/20
1. Abhikami Rajan	1	1	1	1	1	1	1	1	1	1	1	1
2. Amitha P	1	1	1	1	1	1	a	1	1	a	1	1
3. Any Varghese	1	1	1	1	1	1	1	1	1	1	a	1
4. Anjana Krishna	1	1	a	1	1	1	1	1	1	1	1	1
5. Aswathy Pookkuzh	1	1	1	1	1	1	1	a	1	1	1	1
6. Navya S	1	1	1	1	1	1	1	1	1	1	1	1
7. Nikkita Prasad	1	1	1	1	1	1	1	1	1	1	1	1
8. Sista Raj KR	a	1	1	1	1	1	1	a	1	1	1	1
9. Sneha K	a	1	1	1	1	1	1	1	1	1	1	1
10. Abhina P	1	a	a	1	1	1	1	a	1	1	1	1
11. Ariswarya KP	1	1	1	1	1	1	1	1	1	a	1	1
12. Anaswara PK	1	1	1	a	1	1	1	1	1	1	1	1
13. Angel Rose Joseph	1	1	a	1	1	1	1	a	1	1	1	1
14. Ashra Jiji Dames	1	1	1	1	1	1	1	1	1	1	1	1
15. Devika Rajesh	1	1	1	1	1	1	1	a	1	1	1	1
16. Ferni Stephen	1	a	a	1	1	1	1	1	1	1	1	1
17. Sena E	1	1	1	a	1	1	1	a	1	1	1	1
18. Varsha Das	1	1	1	1	1	1	1	1	1	1	a	1
19. Swathi Krishna P	1	1	1	1	1	1	1	a	1	1	1	1
20. Anushti KM	1	a	1	1	1	1	1	1	1	1	1	1

	31/12/20	2/1/21	3/1/21	5/1/21	7/1/21	9/1/21	10/1/21	13/1/21	15/1/21	17/1/21	18/1/21	20/1/21	23/1/21	25/1/21	3/3/21
1. Abhikami Rajan	1	1	1	1	1	1	1	1	1	1	a	a	1	1	1
2. Amitha P	a	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3. Any Varghese	1	1	a	1	1	1	1	1	1	1	1	1	1	1	1
4. Anjana Krishna	1	a	1	1	a	1	1	1	1	1	1	1	1	a	1
5. Aswathy Pookkuzh	1	1	1	1	1	1	1	1	1	1	a	1	1	1	1
6. Navya S	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7. Nikkita Prasad	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8. Sista Raj KR	1	1	1	1	1	1	1	1	1	1	a	1	1	1	1
9. Sneha K	1	1	1	1	a	1	1	1	1	1	1	1	1	1	a
10. Abhina P	1	a	1	1	1	1	1	1	1	1	1	1	1	1	1
11. Ariswarya KP	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12. Anaswara PK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13. Angel Rose Joseph	1	a	a	1	1	1	1	1	1	1	1	1	1	1	1
14. Ashra Jiji Dames	1	1	1	1	1	1	1	1	1	1	a	1	1	1	1
15. Devika Rajesh	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16. Ferni Stephen	1	1	1	1	a	1	1	a	1	1	1	1	1	1	1
17. Sena E	1	1	1	1	1	1	1	1	1	1	1	1	1	a	1
18. Varsha Das	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19. Swathi Krishna P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20. Anushti KM	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Teachers : Dr. Deena Maria Jose
 Dr. Minoo Divakaran
 Dr. Sathide PJ
 Smt. Pilly Peter A


 Dr. Deena Maria Jose
 Assistant Professor & Head
 Department of Botany
 Providence Women's College
 Kozhikode-673009, Kerala

GENES AND GENE SEQUENCES



2.00 pm IST



Farhana Muhammadali KV
Industrial and Commercial Biotechnology
Newcastle University, UK



Investigation of Protein Sequences Demonstration of Applied Bioinformatics - BIC

Farhana Muhammadali Kacheri Veetil

The genome assembly is annotated by using the programme, PROKKA. Upon operating PROKKA, the contigs will get appeared in FASTA format along with the small gaps or small contigs. These are removed by running an editor named Nano. The resultant from this level is used to view the sequence by the tool Artemis.



Fig. 1 shows the sequence and the coordinates for PROKKA. The colored lines are the different annotation tracks representing the state of genes. The gaps are marked with asterisks. The asterisks represent the small gaps or small contigs. The asterisks are marked with asterisks. This approach is used to identify the gaps and to compare the sequence with the reference in the public database.

The selected sequence will undergo BLAST search and find similar sequences of spike, glycoprotein of SARS-CoV2. The PDB identification codes of the two proteins taken for study are 7XRQ(Zhang et al., 2021) and 6ZWW(Ke et al., 2020).



Fig. 2 represents the Multiple Sequence Alignment result obtained from the blast search. The red lines in the alignment indicate the regions with different residues and color. This is the protein ID, a reference to the protein in the database.

Fig. 3 represents the Multiple Sequence Alignment result obtained from the blast search. The red lines in the alignment indicate the regions with different residues and color. This is the protein ID, a reference to the protein in the database.

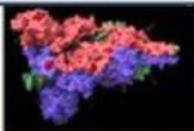


Fig. 4 represents the 3D structure of protein. PROKKA. The region number inside the is shown in the bottom left corner. Fig. 5 represents the 3D structure of protein.

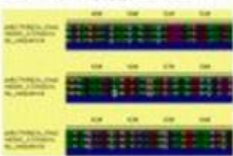


Fig. 5 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.

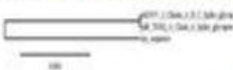


Fig. 6 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.



Fig. 7 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.



Fig. 8 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.



Fig. 9 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.



Fig. 10 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.



Fig. 11 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.



Fig. 12 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.

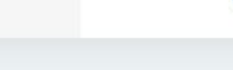


Fig. 13 represents the alignment result performed by Protege 3.1 with overlapping of annotation. The color in the bottom of protein alignment.

<https://meet.google.com/siq-vwbo-wxh>

Google Meet





PROVIDENCE WOMEN'S COLLEGE, KERALA, INDIA

(Affiliated to the University of Calicut)

Reaccredited by NAAC with 3.52 GP, UGC-College with Potential for Excellence

CERTIFICATE OF APPRECIATION

This certificate is awarded to

FARHANA MUHAMMADALI KACHERI VEETIL,

INDUSTRIAL AND COMMERCIAL BIOTECHNOLOGY, NEWCASTLE UNIVERSITY, UK
for delivering an invited lecture on ' Gene and Gene sequencing' at the Genetics@2021
Webinar series, held as part of the program 'Research Methodology in Genetics'
organized by the Dept of Botany,, Providence Women's College,, Kerala, India,
on 17th August, 2021

Dr Minoo Divakaran
Program Coordinator

Dr Deena Meria Jose
Head,
Department of Botany