

# 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.



Full view of the sequence and the contigs that are identified. The upper part is the different contigs, which are identified by the software. The lower part is the sequence of the contigs, which are identified by the software.

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 6ZWP(Ke et al., 2020).

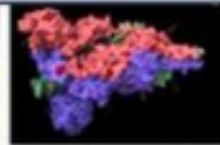


Fig 1. Molecular model of the protein structure.

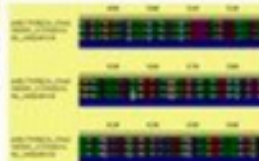


Fig 2. Protein sequence alignment between the two proteins.

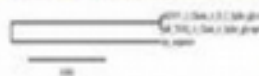


Fig 3. Protein structure of the protein structure.

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

Google Meet



**DEPARTMENT OF BOTANY  
PROVIDENCE WOMEN'S COLLEGE, KOZHIKODE**

**REPORT OF THE SEMINAR ON  
GENES AND GENE SEQUENCES**

The second seminar of the Seminar series on Research Methodology, organised by the Department of Botany was conducted on 17<sup>th</sup> August 2021 at 2.00 pm. The seminar was on Genes and gene sequences. The session was conducted in the online mode, on google meet. Mrs. Farhana Muhammadali KV, Industrial and commercial Biotechnology, Newcastle University UK was the resource person. A detailed account on investigation of the protein sequences was given during the programme. The programme came to an end at 4.00 pm.



**Seminar on  
RESEARCH METHODOLOGY**

**Seminar 2**

**Genes and gene sequences**


17<sup>TH</sup> AUGUST 2021

**ATTENDANCE SHEET**

Sl No	Name	Class / Affiliation
1	ADHEENA RAJ	I BSc BOTANY, PWC
2	ADITHYA G	I BSc BOTANY, PWC
3	AMRUTHA PRASAD T	I BSc BOTANY, PWC
4	ANJANA P	I BSc BOTANY, PWC
5	ARYADINESH R	I BSc BOTANY, PWC
6	ATHMANA B	I BSc BOTANY, PWC
7	AYANA LIJEESH	I BSc BOTANY, PWC
8	BALKEES G K	I BSc BOTANY, PWC
9	HAFEEFA SHERIN C P	I BSc BOTANY, PWC
10	JOVITA MARIA LIBERA	I BSc BOTANY, PWC
11	KRISHNAJA K	I BSc BOTANY, PWC
12	KRISHNENDU B M	I BSc BOTANY, PWC
13	NAHLA K P	I BSc BOTANY, PWC
14	RUBIYA ABDULLA K K	I BSc BOTANY, PWC
15	SHADA FATHIMA V P	I BSc BOTANY, PWC
16	SNEHA K M	I BSc BOTANY, PWC
17	SURURA SHIRIN P T	I BSc BOTANY, PWC
18	THEJA MANJUSH	I BSc BOTANY, PWC
19	ALEENA M T	I BSc BOTANY, PWC
20	AMAL MARIYA JOY	I BSc BOTANY, PWC
21	AMINA FIDA	I BSc BOTANY, PWC
22	ANAMIKA P BABU	I BSc BOTANY, PWC
23	ANASWARA V S	I BSc BOTANY, PWC
24	ANJALIKRISHNA U	I BSc BOTANY, PWC
25	ANJU JOHNY	I BSc BOTANY, PWC
26	ANN MARIYA VINCENT	I BSc BOTANY, PWC
27	ARATHI C M	I BSc BOTANY, PWC
28	ARCHANA BABURAJ	I BSc BOTANY, PWC
29	DHILNA O M	I BSc BOTANY, PWC
30	FATHIMA RUBA K P	I BSc BOTANY, PWC
31	FIDA SHERIN N P	I BSc BOTANY, PWC
32	HEERA E B	I BSc BOTANY, PWC
33	JENYA P	I BSc BOTANY, PWC
34	MANJIMA M S	I BSc BOTANY, PWC
35	RIFA P P	I BSc BOTANY, PWC
36	RINSHA P K	I BSc BOTANY, PWC

37	SHWETHA S	I BSc BOTANY, PWC
38	AKHILA V. P.	I MSc BOTANY, PWC
39	AMITHA P.	I MSc BOTANY, PWC
40	AMITHA P. P.	I MSc BOTANY, PWC
41	ANAGHA P. S.	I MSc BOTANY, PWC
42	ANUSHA K. S.	I MSc BOTANY, PWC
43	APARNA SUDHARSHAN	I MSc BOTANY, PWC
44	ASHLIN ROSE WILSON	I MSc BOTANY, PWC
45	ASWANA C.	I MSc BOTANY, PWC
46	MIDHUNA A.	I MSc BOTANY, PWC
47	MUFEEDHA K.	I MSc BOTANY, PWC
48	NANDHA S. K.	I MSc BOTANY, PWC
49	NASHVA SHIRIN M.	I MSc BOTANY, PWC
50	RASHMA P. K.	I MSc BOTANY, PWC
51	SANDRA R. G.	I MSc BOTANY, PWC
52	SANDRA K. K.	I MSc BOTANY, PWC
53	SNEHA K.	I MSc BOTANY, PWC



  
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