



- **TITLE OF EVENT/ PROGRAMME (SEMINAR/ WEBINAR/ WORKSHOP/ EXTENSION LECTURE/ EXTENSION ACTIVITY/ ANY OTHER ACTIVITY):** One-day online workshop on Mastering the Basics of Bioinformatics
- **THEME OF THE EVENT/ PROGRAMME:** Expanding knowledge in Bioinformatic tool
- **ACADEMIC SESSION:** 2022-2023
- **DATE:** 30th May, 2023
- **VENUE:** Online platform (google meet and youtube streaming)
- **OBJECTIVE/ PURPOSE:**

This particular workshop was kept open to all candidates with the larger aim of knowledge transfer to the willing candidates (students and faculties of Asutosh College and others). The sole purpose of conducting this online workshop in the Department of Biochemistry is to provide the participants, with hands-on experiences of various Bioinformatics tools and search engines.

- **SPEAKER/S / RESOURCE PERSON/S:**

The guest speakers were Dr. Raghunath Chatterjee, Associate Professor & Head and Mr. Shantanab Das, SRF; both from Human Genetics Unit, ISI, Kolkata.

- **TARGET AUDIENCE/ PARTICIPANTS:**

Students and faculties of Asutosh College as well as other colleges and Universities

- **ATTENDANCE SHEET:** Attached

- **BRIEF REPORT ABOUT THE EVENT/ PROGRAMME:**

The Department of Biochemistry organized the one-day online workshop on Mastering the Basics of Bioinformatics. The guest speakers were Dr. Raghunath Chatterjee, Associate Professor & Head and Mr. Shantanab Das, SRF; both from Human Genetics Unit, ISI, Kolkata. Dr. Chatterjee enlightened the participants with his elegant and easy-to-understand speech on various aspects of quantitative polymerase chain reaction (q-PCR). He emphasized on the flow-technique, data analyses and applications of q-PCR. Mr. Das gave online demonstration of primer design for general PCR, q-PCR and real-time PCR (RT-PCR). He also demonstrated the use of UCSC genome browser and in-

ASUTOSH COLLEGE
(Estd. 1916)
92, S.P. Mukherjee Road
Kolkata – 700026



Phone: 2455-4504/2486-3912
Fax : (033) 2486-3006
Mail : mail@asutoshcollege.in
Web : www.asutoshcollege.in

silico PCR. He taught the participants the basics and the use of Basic local alignment search tool (BLAST), its types and significance of E-values. All the

PRINCIPAL
ASUTOSH COLLEGE
92, S. P. MUKHERJEE ROAD
KOLKATA-700 026



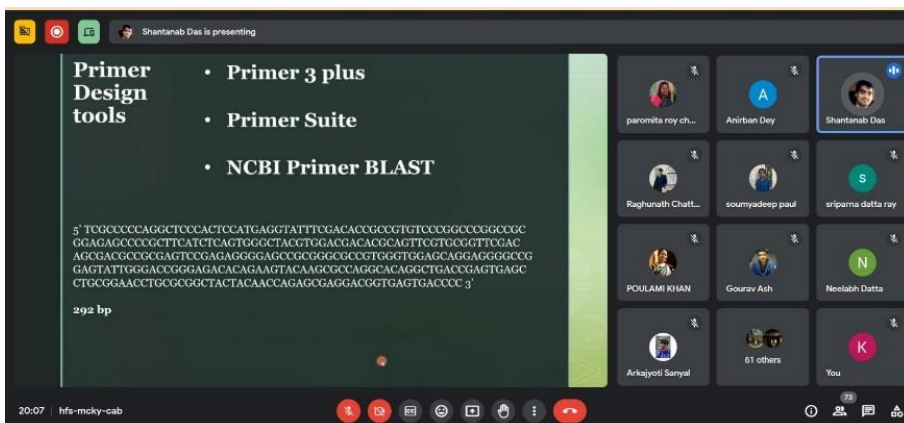
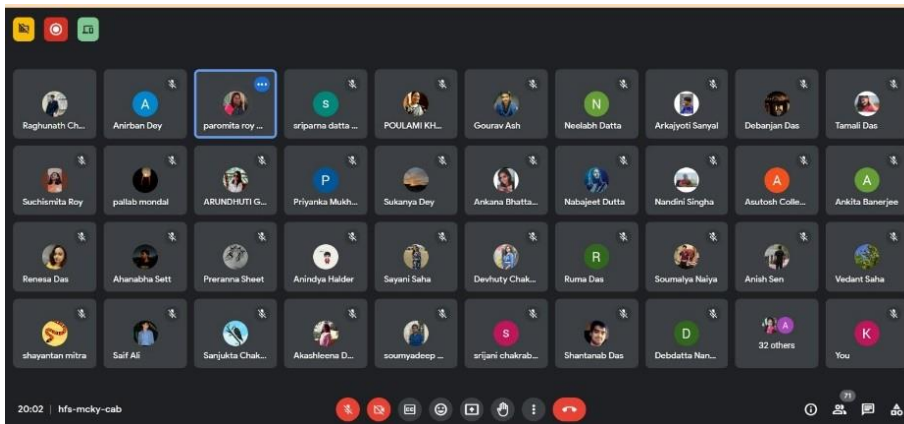
participants joined with their laptop/desktop with proper internet connectivity and performed the steps for learning as directed by the instructor or speaker.

The students were very much encouraged to raise their queries during the entire session and clear their doubts regarding the process of bioinformatics analyses.

➤ **EXPECTED OUTCOME:**

The workshop and the lecture gave an idea to the students about the various well-established and new techniques used in the field of bioinformatics. This was an opportunity for the students to interact with the scientists from the similar background as theirs and to clarify their queries regarding the applications of the bioinformatics. This interactive workshop was very much helpful for the students as this helped them to develop practical experiences about the bioinformatics tools. As per the NEP-2020, where the syllabus has been modified enormously, this on-hand experience and knowledge on Bioinformatics will help them in the near future. The certificate provided for attending this workshop would add to their values after graduation also.

➤ **GEO-TAGGED PHOTOGRAPHS:**




PRINCIPAL
ASUTOSH COLLEGE
92, S. P. MUKHERJEE ROAD
KOLKATA-700 026



<https://www.urogene.org/cgi-bin/methprimer/methprimer.cgi>



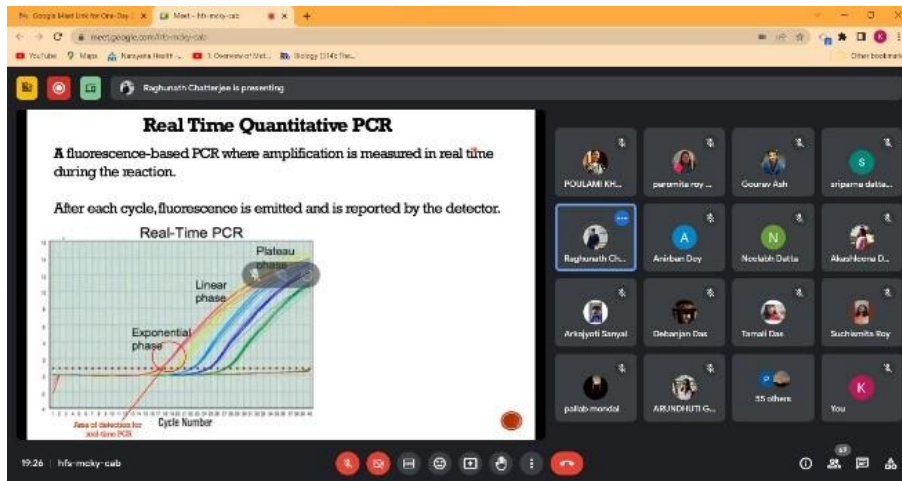
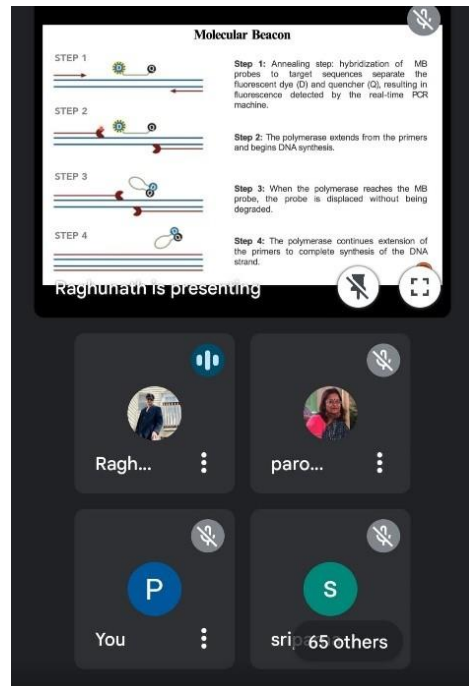
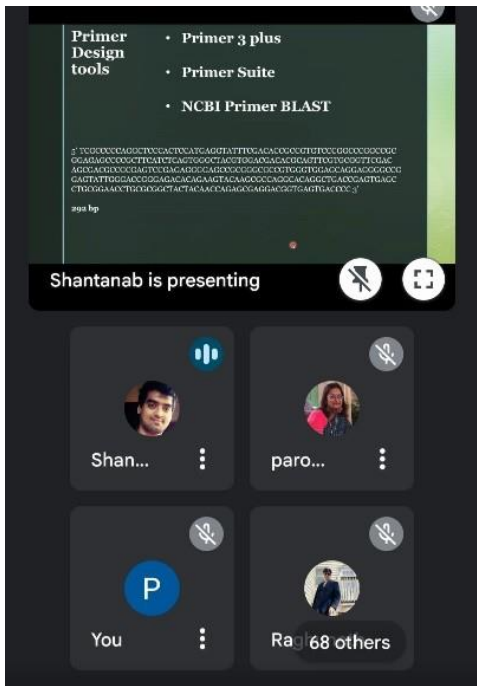
Suchismita Roy 1 min
 how do we get this diagram after submitting the sequence



Shantanab Das Now
 Can you share a screenshot? Just go there, submit the sequence and submit for primers.



Suchismita Roy Now
 can you explain it once again, please sir



[Handwritten signature]