

GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by NAAC Guru Nanak Salai, Velachery, Chennai – 600042.

Guru Nanak Centre for Research

Event Title	National Webinar on "Molecular mechanisms and methods available in nCOVID 19 detection - an update"	
Category	UG/PG Students, School Students, Faculty (Teaching and Non-Teaching), Researchers, Industry Persons.	
Date	From: 12.08.2020	To: 12.08.2020
No. of Resource Person	1	
No. of Participants	204	

(2)Report Description:

The objective of this webinar is:

As the epidemic of COVID-19 is spreading all over the globe rapidly, a timely initiative to conduct a one day National Webinar on 'MOLECULAR MECHANISMS AND METHODS AVAILABLE IN nCOVID 19 DETECTION - AN UPDATE' by Guru Nanak Centre for Research (GNCR) was proposed and executed by Dr. J.Jayanthi, Dean Research.

Dean Mam gave holistic bird's eye view of the COVID pandemic situation and also highlighted that this topic is a need of an hour.

The objective was to provide a comprehensive and up-to-date assessment of the COVID-19 epidemic molecular analysis

(3) Report:

Guru Nanak Centre for Research (GNCR) of Guru Nanak College, (Autonomous), Velachery, Chennai organized National Webinar on "Molecular mechanisms and methods available in nCOVID 19 detection - an update "on 12/08/2020 between 12.00 pm. to 01.20 pm, through Google Meet Platform, where around 204 participants from various Colleges, Universities, Research Institutes and Industries actively participated in the National Webinar

The webinar theme was designed to stimulate Life science professionals to enhance their research and their carrier in understanding the molecular diagnosis of COVID-19. This will make the researcher for their better preparedness in further research on any viral infectious diseases.

The Dr.Kumaraguru , Dean IT, welcomed the Speaker, dignitaries of the College Management, Faculty members and the participants from all over the States. Dr. Satheesh Kumar Sabapathy, Research Scientist, Multi- Disciplinary Centre for Biomedical Research, Aarupadi Veedu Medical College and Hospital Vinayaka Mission's Research Foundation (Deemed to be University) Puducherry, was the resource person who delivered the presentation about Virology of SARS-CoV-2 and the molecular analysis of nCOVID-19. He gave a brief note on coronaviruses types and briefed the difference between less pathogenic variety include HCov-229E and HCoV-HKU1 and the highly pathogenic group consists of SARS-CoV, SARS-CoV-2 and MERS-CoV. He explained the viral stability in aerosols (for 3 hrs, 4hrs, 24 hrs, 48hrs), Copper, cardboard, steel and plastic respectively

According to his opinion PCR tests are used to directly detect the presence of an antigen, rather than the presence of the body's immune response, or antibodies. He explained through video that how COVID-19 RT-PCR test is a qualitative detecting nucleic acid from SARS-CoV-2 in upper and lower respiratory specimens (such as nasopharyngeal or oropharyngeal swabs, sputum, lower respiratory tract aspirates, bronchoalveolar lavage, and nasopharyngeal wash/aspirate) collected from individuals suspected of COVID 19 patients. This video further explained how samples are collected from any individual, including from individuals without symptoms or other reasons to suspect COVID-19 infection, the amplification process, the probe anneals to a specific target sequence located between the forward and reverse primers, the extension phase of the PCR cycle and the confirmation analysis

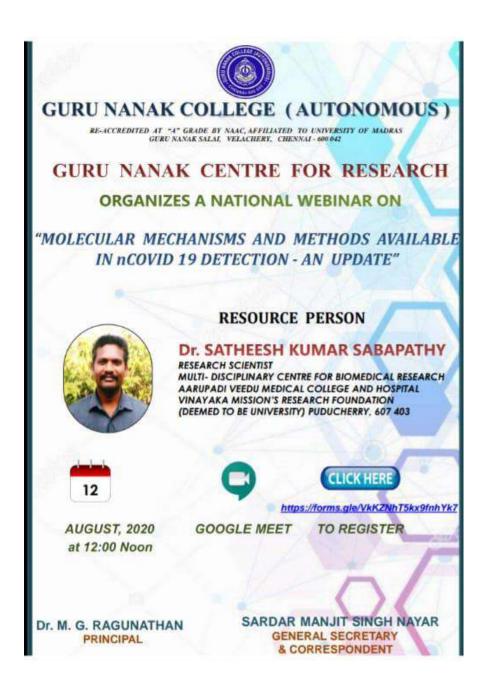
Finally he concluded that, there is a need of scaling up PCR testing to screen vast swathes of nasopharyngeal swab samples from within a population, public health officials that can get a clearer picture of the spread of a disease like Covid-19 within a population. He also answered to all the queries of the participants

Research Dean Dr. J. Jayanthi gave the concluding remarks and proposed the vote of grateful thanks to all those who had helped to make the webinar a success.

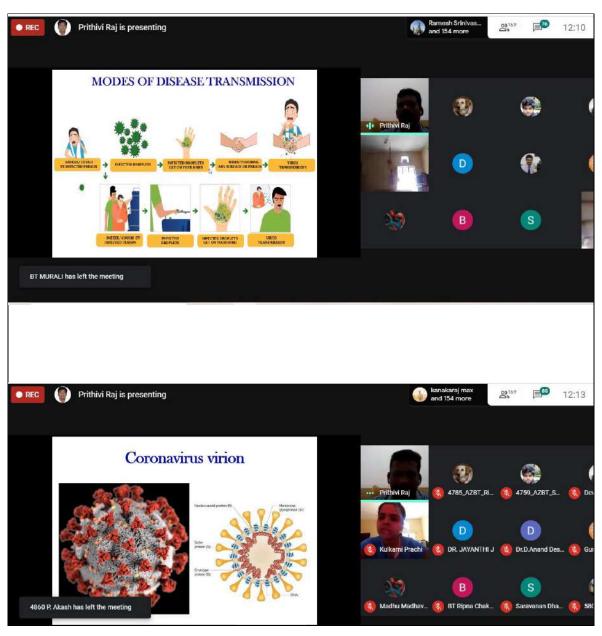
Finally she concluded with very simple message –

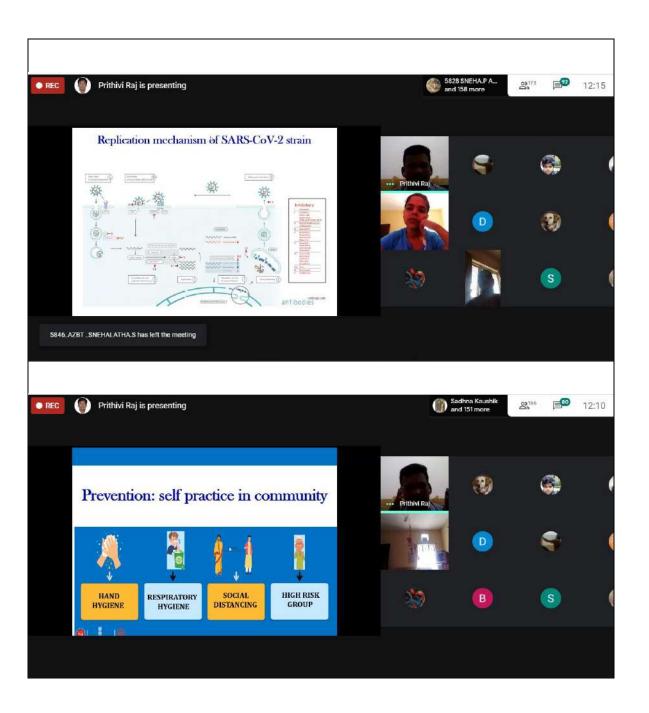
Prevention is better than cure. Practice hand washing, cough etiquette. Social distancing, avoid travel and report if any symptoms arise. Follow Government advice only. Together we fight and we win.

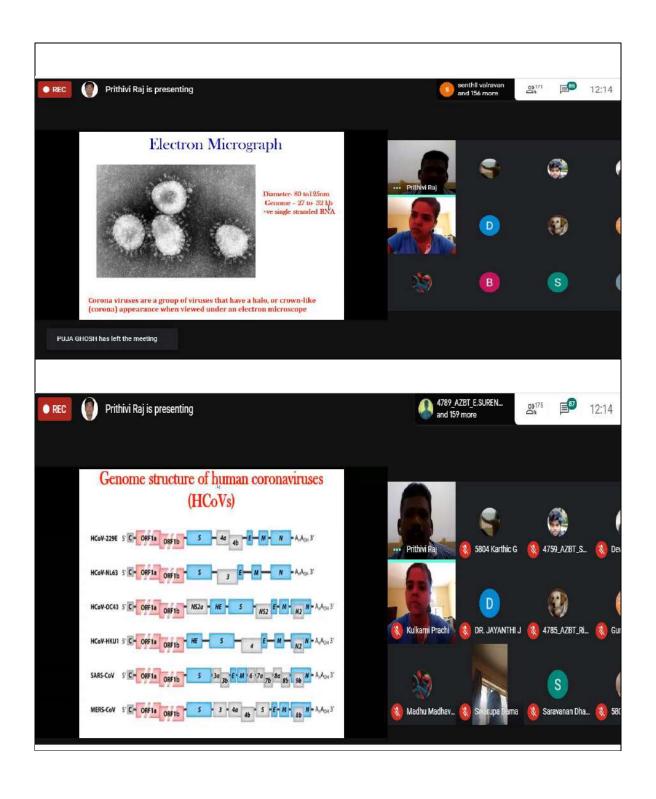
(4) INVITATION

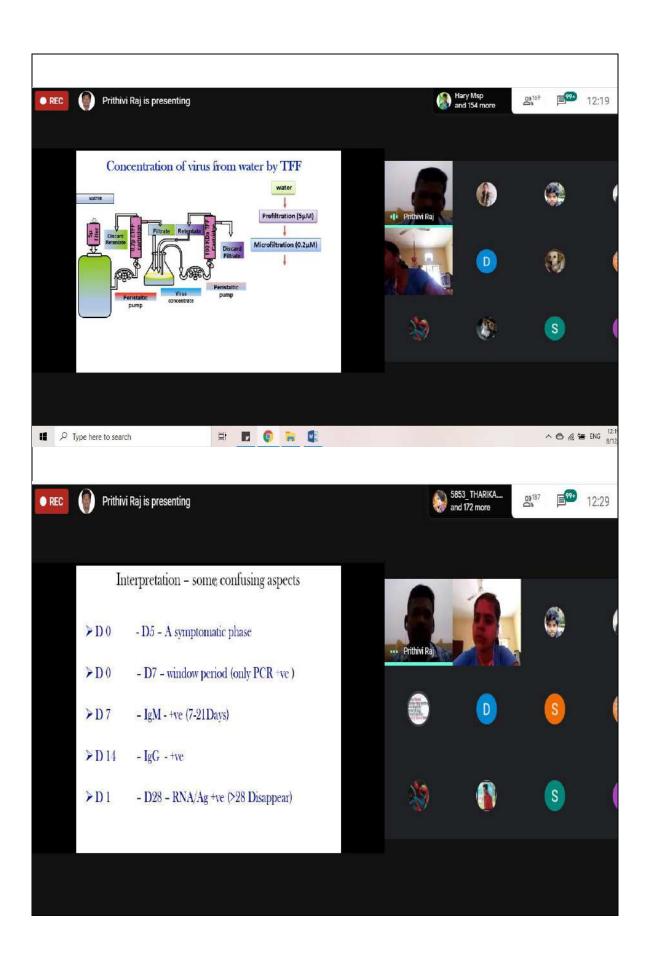


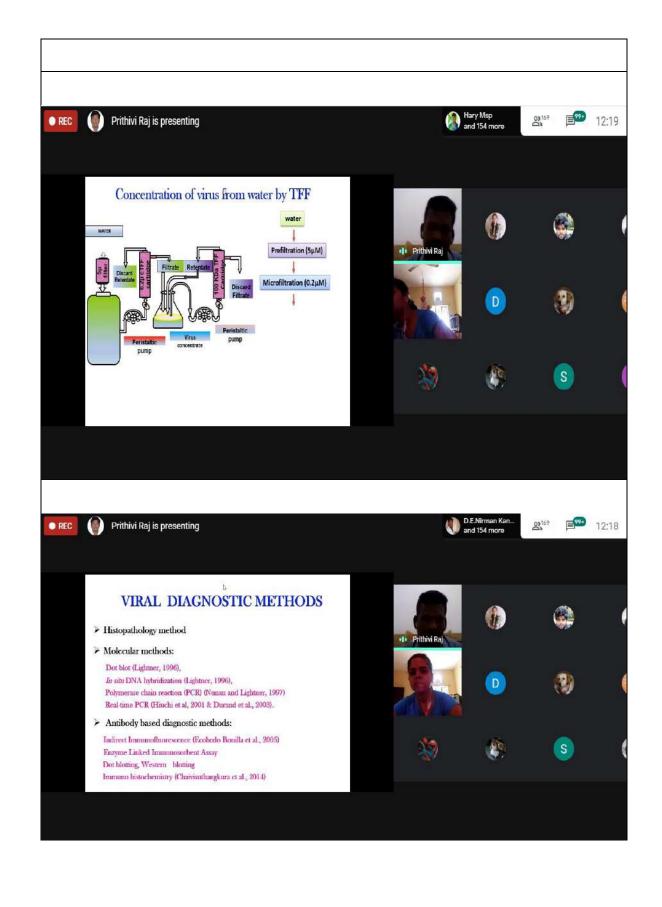
(5)PHOTOS

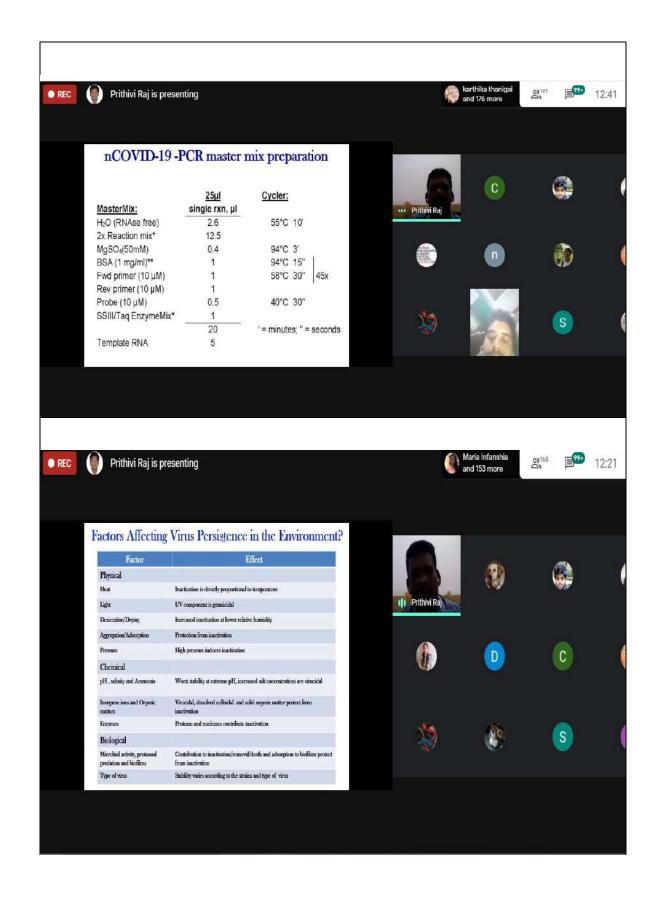


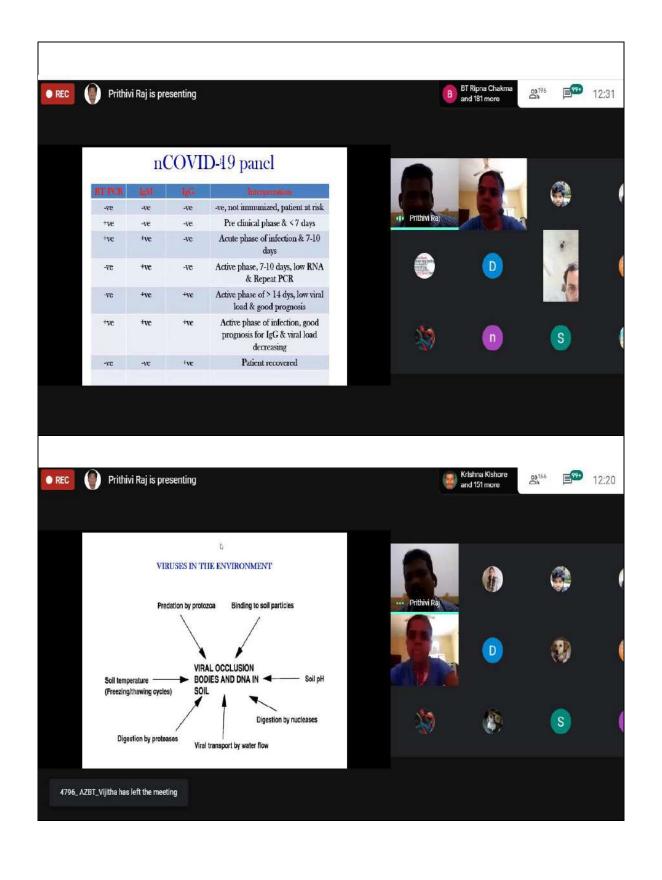


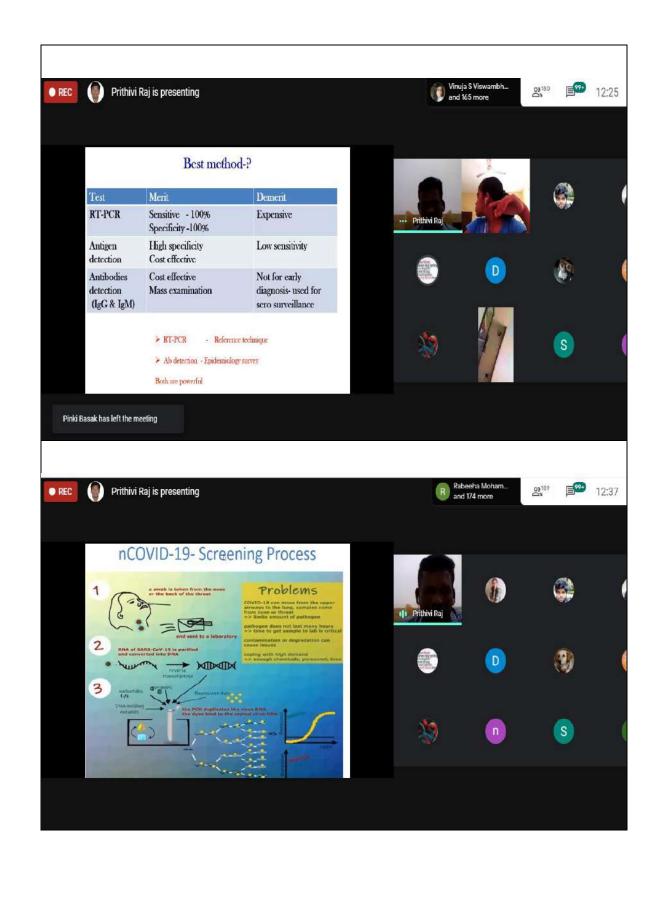


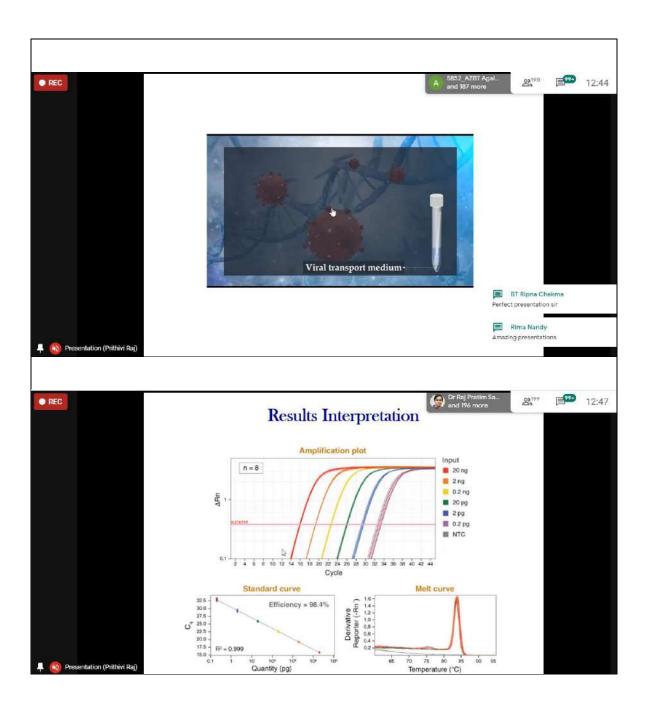












(7) CERTIFICATE COPY



GURU NANAK COLLEGE

(AUTONOMOUS)

RE-ACCREDITED AT "A" GRADE BY NAAC, AFFILIATED TO UNIVERSITY OF MADRAS GURU NANAK SALAI, VELACHERY, CHENNAI - 600 042.

GURU NANAK CENTRE FOR RESEARCH

CERTIFICATE OF PARTICIPATION

This is to certify that

<<FULL NAME>>

has participated in the NATIONAL WEBINAR on "MOLECULAR MECHANISMS AND METHODS AVAILABLE IN nCOVID 19 DETECTION - AN UPDATE" held on 12/08/2020 organized by the GURU NANAK CENTRE FOR RESEARCH (GNCR), GURU NANAK COLLEGE (AUTONOMOUS),

Guru Nanak Salai, Velachery, Chennai - 600 042.

Dr. J. JAYANTHI DEAN RESEARCH & CONVENER

Dr. M. G. RAGUNATHAN PRINCIPAL Mr. MANJIT SINGH NAYAR GENERAL SECRETARY & CORRESPONDENT