

## Department of Microbiology

### Live webinar Report

### Impact of Probiotics in combating COVID -19 – A Potential Preventive Strategy

October 12<sup>th</sup>, 2020

#### Participants : 107

Live Webinar on Impact of Probiotics in combating COVID -19 – A Potential Preventive Strategy was successfully organized by Department of Microbiology, Karpagam Academy of Higher Education with participation of diverse disciplines of life science people from various Universities, Colleges and Research centres all over from India on 12<sup>th</sup> October, 2020. The Department of microbiology has plays significant role in organizing conferences, seminars, workshops and other such academic activities. In the COVID-19 Pandemic period, the microbiology department has well proposed this important webinar entitled on “Impact of Probiotics in combating COVID -19 – A Potential Preventive Strategy” as an awareness perspective. The webinar addresses the various aspects of mechanisms and strategies involved on combating the pandemic COVID-19 in a healthy aspect of using Probiotics. This webinar content was aimed for all life science community to explore the probiotics role in preventing the corona virus infections further. There were nearly about **107** number of participants registered for this programme from different Universities and Colleges across India and all participants were successfully completed the programme. The programme progressed with opening remarks for the live webinar at 11.00 am by Dr. Usha, Prof and Head, Department of Microbiology, followed by welcome address has been given by Dr. M. Kulandhaivel, Associate Professor Department of Microbiology.

Resource Person was Dr. Prakash M Halami Chief Scientist/Professor – AcSIR Head, Microbiology & Fermentation Technology Department, CSIR – Central Food Technological Research Institute, Mysore, India having expertise in the different relevant areas related to the programme deliver the lectures in this Faculty Development Programme. The field specialization Development and evaluation of probiotics for gastro-intestinal health, formulation of lactic acid bacterial probiotic cultures for cholesterol management, probiotics for anti-inflammation and gut

microbiota modulation. Supplementation of bifidobacterial probiotics against Gram-negative pathogens and for arthritis management. Spore forming probiotic product development as a functional food with biopreservatives property. Evaluation of safety of probiotics and development of protocols for antimicrobial drug resistance studies.

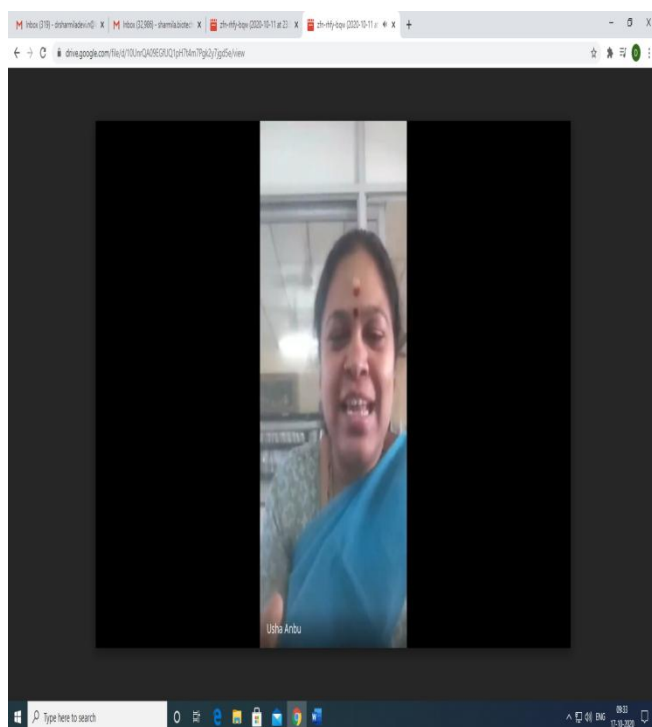
The content of the webinar addresses the following key points related to prevention strategies against COVID-19 by using probiotics.

- COVID-19 is an infectious disease caused by coronavirus 2 having symptoms of systemic hyper-inflammation.
- Coronavirus disease -19 (COVID-19) has had a massive global impact in terms of economic disruption, the strain on local and global public health resources, and, above all, human health
- The CoV genome is an enveloped, positive-sense, single-stranded RNA with a size varying between 26 kb and 32 kb, the largest genome of known RNA viruses.
- Both  $\alpha$ - and  $\beta$ -CoV genera are known to infect mammals, whilst  $\delta$ - and  $\gamma$ -CoVs infect birds.
- Prebiotics or probiotics as adjunctive therapy to regulate the balance of intestinal microbiota may reduce the risk of secondary infection in patients
- Gut microbiota is a very diverse system
- Other than Lactobacilli and Bifidobacteria, other bacteria can also be tested against COVID- 19 and associated inflammation

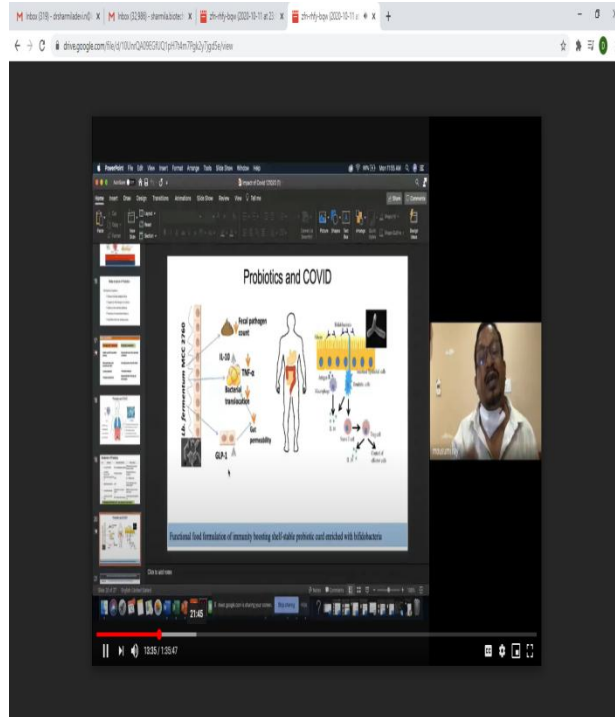
In the end, Dr. N. Sharmila Devi, Assistant Professor, handled questioning session and conveyed to resource persons put forth by the external participants. Dr. N. Sharmila Devi, Assistant Professor gave the vote of thanks and concluded the one-day live webinar. This programme has reached many academicians and research scholars to improve their current

knowledge on life science research and development. All the participants were provided with participation certificates followed by the successful completion of webinar event.

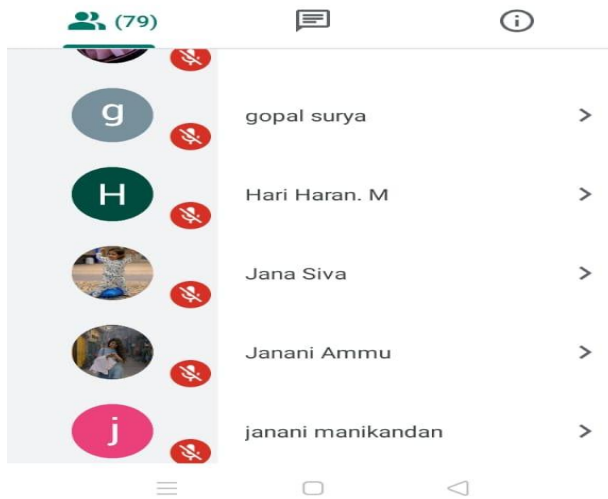
## PHOTOS OF THE EVENT:



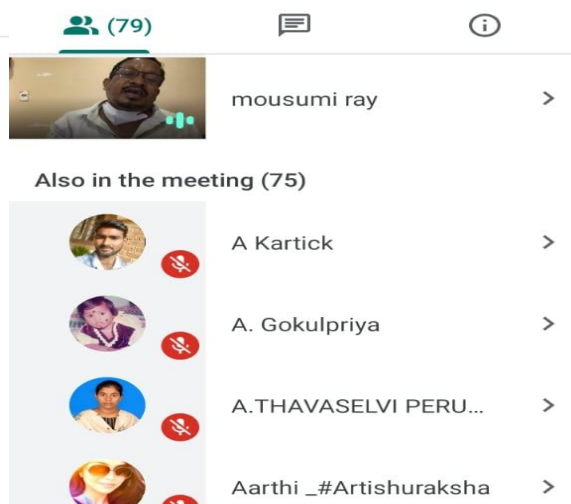
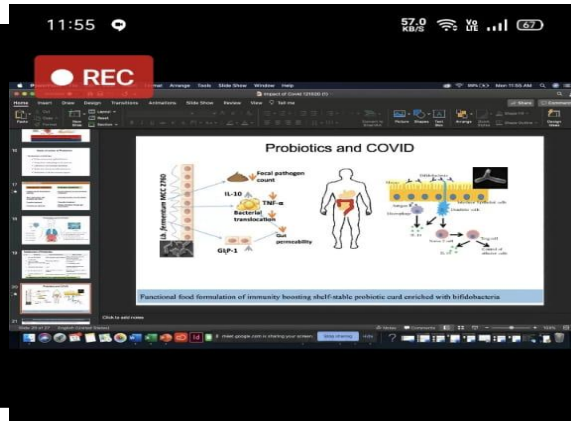
Welcome address



Power Point Presentation



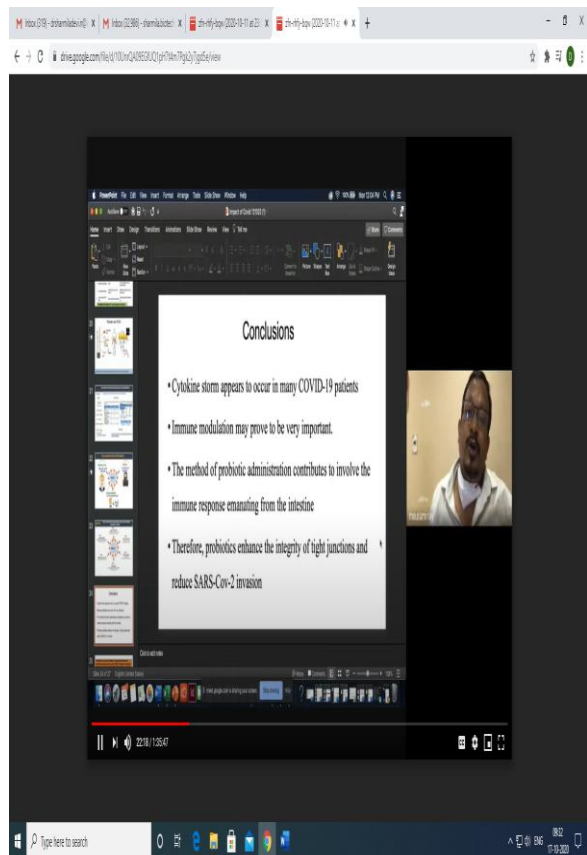
Event Ongoing



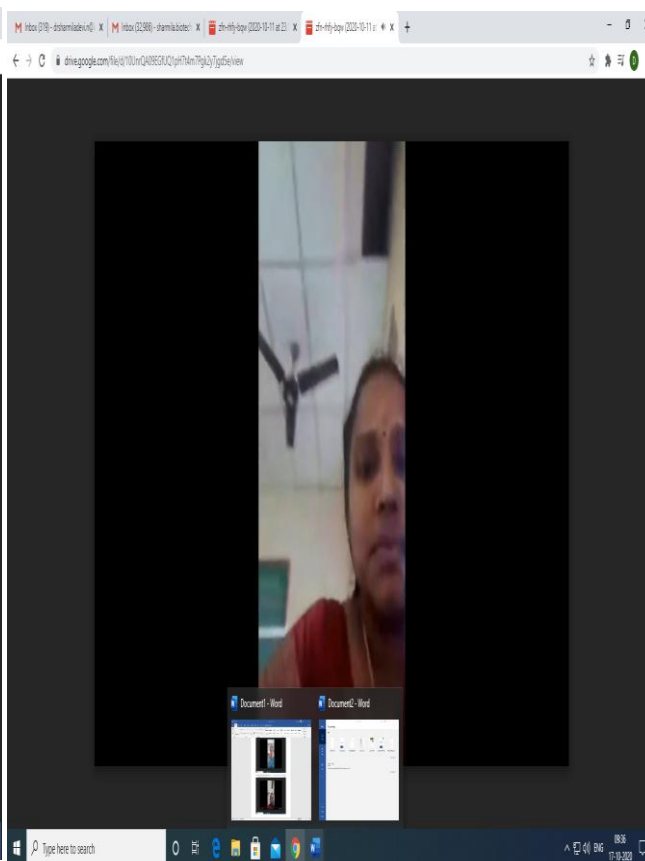
Powerpoint Presentation



Delivering Lecture



Conclusion



Vote of Thanks