## Report

## Webinar on National Campaign on AMR Antimicrobial Resistance in Fish- 23 November 2021, 12.15-3.30PM

Indian Council of Agricultural Research- Central Institute of Fisheries Technology (ICAR-CIFT), Cochin organized a webinar on one of the most relevant topic- Antimicrobial Resistance in Fish as part of National Campaign on AMR coinciding with World Antimicrobial Awareness Week (18-24 November).

The webinar started with a welcome address by Dr. Sankar T.V., Principal Scientist & In-Charge, PME Cell, ICAR-CIFT. He welcomed the Chief Guest of the programme, Dr. Joy Krushna Jena, Deputy Director General (Fisheries Science), ICAR, New Delhi and Dr. C.N. Ravishankar, Director, ICAR-CIFT. He also welcomed three invited speakers, Prof. Stephen Rimmer from University of Bradford, Prof. Xunli Zhang, University of Southampton and Prof. Till Bachmann, University of Edinburgh. Participants from various research institutes and students from Universities were also welcomed to the event.

The Chief Guest Dr. J.K Jena, Deputy Director General (Fisheries Science), ICAR deliberated on the initiatives taken by ICAR in addressing AMR. He briefed on the National Action Plan to combat Antimicrobial Resistance (AMR). He elaborated on the network which has been named as the Indian Network for Fisheries and Animal Antimicrobial Resistance (INFAAR). The role of ICAR in creating INFAAR with technical and financial support from FAO in forging a network of laboratories from different parts of India to undertake surveillance of AMR in animal health and fisheries sectors was emphasized.

Dr. Toms C. Joseph briefed the audience about the research activities related to AMR in Division of Microbiology, Fermentation and Biotechnology. The division has two Indo-UK projects with titles: 1. Diagnostics for One Health and User Driven Solutions for AMR (DOSA) and 2. Does antimicrobial resistance (AMR) in livestock contribute to AMR in people in NE India? An interdisciplinary study investigating antibiotic use, drivers of AMR, and transmission dynamics is underway. Another DBT funded project titled screening lytic phages from diverse marine and aquatic niche for controlling bacterial pathogens associated with aquaculture and post-harvest fish quality and an INFAAR project on assessment of

antimicrobial resistance in microorganisms associated with fisheries and aquaculture in India are also under progress.

Dr. C.N. Ravishankar, Director, ICAR-CIFT also spoke on the occasion about the contribution of CIFT in tackling AMR and its contribution towards research in AMR. He also thanked the invited speakers for agreeing to be part of such an event.

Three lectures from internationally reputed experts were scheduled for the webinar. The first speaker, Prof. Stephen Rimmer from University of Bradford gave an elaborate presentation on the use of acrylic and polyurethane hydrogels for combating antimicrobial resistance specifically on pathogens like *Staphylococcus aureus* and *P. aeruginosa*. The second speaker Prof. Xunli Zhang is an expert in the field of Bioengineering and Microsystems and the Director of Chemical Engineering Division of University of Southampton. He spoke on microfluidics technology, a cost effective platform in tackling AMR. The last presentation was from Prof. Till Bachmann, University of Edinburgh. He is an expert in point of care detection of infectious diseases and antimicrobial resistance, conducting research at the interface of biomarkers and rapid diagnostics including for COVID-19. Till is the coordinator of the UK-India project 'DOSA - Diagnostics for One Health and User Driven Solutions for AMR', and presented on the topic: AMR diagnostics in aquaculture.

Participants (170) from all over the country and abroad representing various Universities and Research institutes participated in the webinar. Queries pertaining to the topics presented were addressed and the webinar was concluded with vote of thanks by Dr. G.K. Sivaraman, Principal Scientist, MFB Division, ICAR-CIFT. Provision for e-certificates to the students and researcher scholars were made.





## Webinar "Antimicrobial resistance in fish"

An international webinar on World Antimicrobial Awareness Week 2:00 - 5:00 PM, IST, 9th November 2021 Meeting platform: Zoom



AMR Diagnostics in Aquaculture Time: 02:00PM - 02:45PM (IST) 08:30- 09:15 UK Time, Tuesday 09th Nov 2021 Dr. Till Bachmann

Dr. Till Bachmann Professor, The University of Edinburgh



Microfluidics as an Emerging Platform for Tackling AMR Time:03:00PM- 03.45PM (IST) 09.30-10.15 UK Time, Tuesday 09th Nov 2021

> Dr (Prof) Zhang Xunli Professor, The University of Southampton. UK



Acrylic and Polyurethane hydrogels for combating Anti-microbial resistance Time:04:00PM- 04.45PM (IST) 10.30-11.15 UK Time, Tuesday 09th Nov 2021 Dr (Prof). Stephen Rimmer Professor, University of Bradford, UK



Flyer of the Webinar



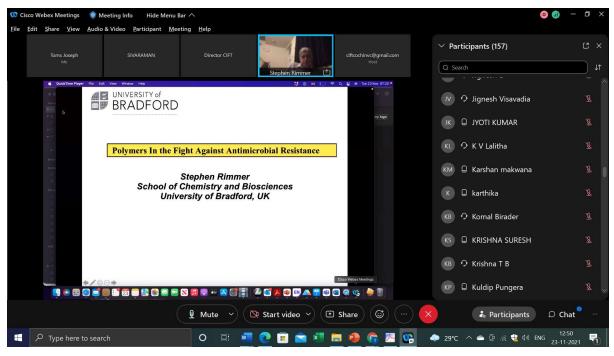
Dr. C. N Ravishankar, Director, ICAR-CIFT delivering the presidential address



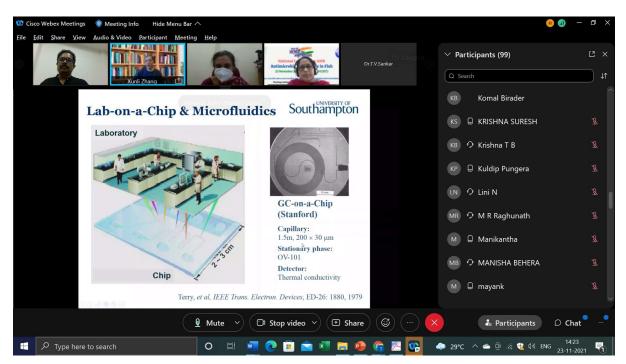
Dr. J. K Jena, DDG (Fishery Science) addressing the delegates



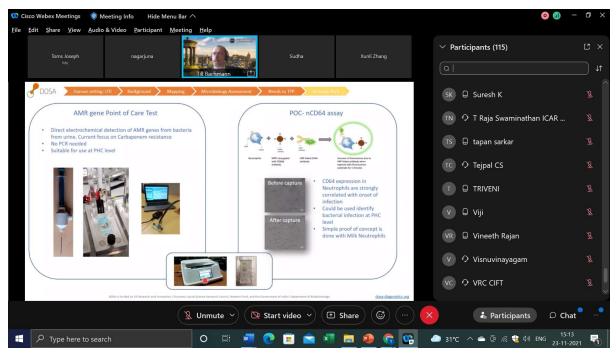
Dr. T. V Sankar, Principal Scientist and In charge PME cell welcoming the participants



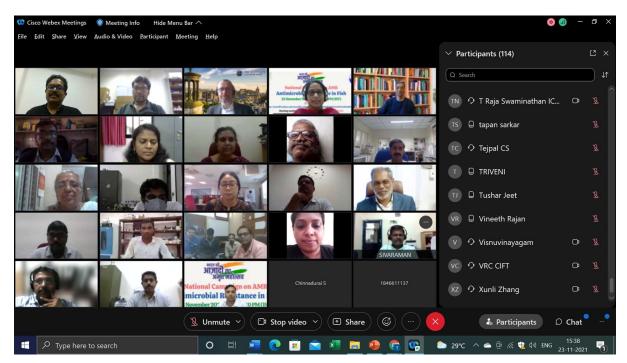
Prof. Stephen Rimmer, University of Bradford delivering the lecture



Prof. Xunli Zhang, University of Southampton delivering the lecture



Prof. Till Bachmann, University of Edinburgh delivering the lecture



A snap of the participants