


**Report on National  
Webinar on  
“Technological advances  
in applied microbiology”**

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| <b>Title of the Event</b>            | <b>National Webinar on “Technological advances in applied microbiology”</b>   |
| <b>Date and Time</b>                 | 10 <sup>th</sup> -12 <sup>th</sup> November 2021, 10:00 am to 5:30 pm   |
| <b>Mode</b>                          | Online  |
| <b>School/Directorate</b>            | School of Biological Sciences and Biotechnology (Former Department of Microbiology).  |
| <b>Collaborating Agency</b>          | <ol style="list-style-type: none"> <li>1. Atal Centre for Ocean Science and Technology for Islands” (ACOSTI), National Institute of Ocean Technology (NIOT), Andaman and Nicobar islands</li> <li>2. DBT-National Centre for Cell Science (NCCS), Pune</li> <li>3. Tamil Nadu Agricultural University (TNAU), Coimbatore</li> <li>4. ICAR National Centre on Meat, Hyderabad, Telangana</li> <li>5. IIT Kharagpur, India</li> <li>6. Center for Systems Biology and Molecular Medicine, Yenepoya Research Centre, Mangalore</li> </ol>  |
| <b>Participants</b>                  | 105- M.Sc., Ph.D., faculty, scientists  |
| <b>Detail of the Resource Person</b> | <ol style="list-style-type: none"> <li>7. Dr. Vinithkumar NV (Scientist-F, Atal Centre for Ocean Science and Technology for Islands” (ACOSTI), National Institute of Ocean Technology (NIOT), Andaman and Nicobar islands.);</li> <li>8. Dr. Avinash (Scientist D, DBT-National Centre for Cell Science (NCCS), Pune.)</li> <li>9. Dr. D. Balachandar (Professor, Department of Agriculture Microbiology, Tamil Nadu Agricultural University (TNAU), Coimbatore.).</li> <li>10. Dr. S. B. Barbuddhe (Director at ICAR National Centre on Meat, Hyderabad, Telangana.)</li> <li>11. Dr Pinaki Sar (Dept of Biotechnology, IIT Kharagpur, India).</li> <li>12. Dr. Prof. T. S. Keshava Prasad (Professor and Deputy Director, Center for Systems Biology and Molecular Medicine, Yenepoya Research Centre, Mangalore</li> <li>13. Dr. Hemant J Purohit (Former Head, Environmental Biotechnology &amp;</li> </ol> |

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|   | Genomics Division, CSIR-NEERI,<br>Nagpur.)  |
| Faculty attended                          | 31 (Goa University - 9, Other university - 22)  |
| Student attended                          | 74 (Goa University - 60, Other university - 14)   |
| No. of external participants              | 34 (included in above distribution)   |
| The objective/description of the activity | To expose the participants towards recent innovations and technologies development in the field of microbiology.<br>To make aware of various innovative tools for exploring microbial diversity, understanding their interactions in ecosystems and microbial diagnostics and detection systems.  |
| Benefit/Key outcome of the event          | Resource persons explained the various technologies developed at ACOSTI, NIOT for production of pigments, DHA, ectoine, and recombinant enzymes using marine microorganisms from Andaman Islands.<br>Resource person deliberated on the patent obtained for the development of Multiplex PCR kit for detection of virulent genes in <i>Enterococcus faecalis</i> .<br>Participants exposed to various innovative technologies in the field of metagenomics specifically to understand the microbial diversity and their functional applications in extreme environments.<br>The participants were introduced to innovative technologies such as SCAR marker based finger print method for strain authentication in biofertilizer.<br>The recent proteomic approaches to study dynamic state of pathogenesis.<br>Participants also introduced to emerging diseases and upcoming technologies to tackle this problem. |

  
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 Organizing Secretary  
 and  
 Programme Director, Microbiology, SBSB

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