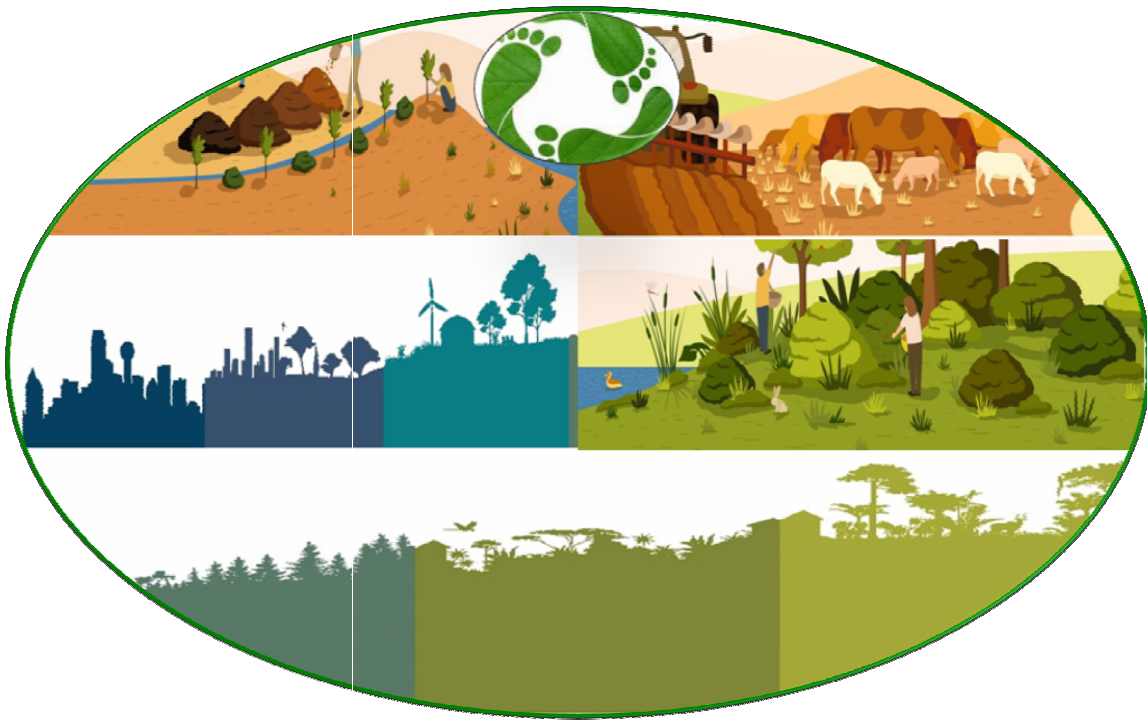




A Report of the
WEBINAR
On
‘Biologic Drugs and Biosimilars’ on the
occasion of
World Environment Day, 5th June, 2021



Organised by:
ENVIS RP on Environmental Biotechnology, University of Kalyani
Under the aegis of
University of Kalyani ('A' Grade Accredited by NAAC)
West Bengal, India
Sponsored by: MoEF & CC, Govt. of India



**Webinar talk on 'Biologic Drugs and Biosimilars' on the occasion of
World Environment Day, 5th June, 2021**

Organised by: DESKU ENVIS RP on Environmental Biotechnology, University of Kalyani,
Under the aegis of University of Kalyani, West Bengal
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**Join us on 5th June, 2021
Time: 11.00 AM On Google Meet**

Chief Patron:

Prof. (Dr.) Manas Kumar Sanyal, Hon'ble Vice Chancellor, K.U

Chief Co-Patron:

Prof. (Dr.) Goutam Paul, Hon'ble Pro-Vice Chancellor, K.U

Patron:

Prof. (Dr.) Keka Sarkar, Dean, Faculty of Science



Speaker:

Dr. Suman Bandyopadhyay, Head- Upstream Process Development
Dr. Reddy's Laboratories Ltd., Hyderabad, India

Free Registration: <https://forms.gle/2eVFCJJWYsbG6KJy7>

Limited Seats Available

E-certificate will be provided to registered participants

Last Date of registration: by 4th June, 2021 (05.00 PM)



**The webinar brochure was widely circulated through facebook page,
Whatsapp groups and emails**

Due to COVID-19 pandemic the DESKU ENVIS Resource Partner on Environmental Biotechnology, University of Kalyani, supported by Ministry of Environment, Forest and Climate Change (MoEF & CC), Govt. of India, New Delhi, organized a webinar on '**Biologic Drugs and Biosimilars**' on the occasion of **World Environment Day, 5th June, 2021** at **11.00 am**.

At the outset, the Coordinator, ENVIS-RP of the University of Kalyani, Prof. Asoke P. Chattopadhyay welcomed the dignitaries, the speaker of the webinar and the participants. He mentioned that theme of the World Environment Day in 2021 is 'Ecosystem Retoration' through the efforts to 'reimagine, recreate and restore.' Then the webinar was inaugurated by the Hon'ble Vice Chancellor, University of Kalyani Prof. (Dr.) Manas Kumar Sanyal, in the virtual presence of dignitaries and participants. He spoke on the need to restore the state of the environment and threats the latter is facing today. The next issue of **ENVIS newsletter on Environmental Sustainability and Ecological Footprint (ISSN: 09742476, Vol-38, 1)** (a picture of the cover page is given below) was released by the Hon'ble Vice Chancellor of the University, Prof. Sanyal. Next, Prof. (Dr.) Goutam Paul, Hon'ble Pro-Vice Chancellor, University of Kalyani, spoke on the topic and on environment. He said the topic of the webinar is very relevant in restoration of the environment. He also mentioned the efforts of scientists from Alexander Fleming to the latest developments on developing drugs from biological entities. Prof. (Dr.) Keka Sarkar, Dean, Faculty of Science, spoke next and stressed the need to preserve the environment and what academicians, scientists and others can do in that direction.

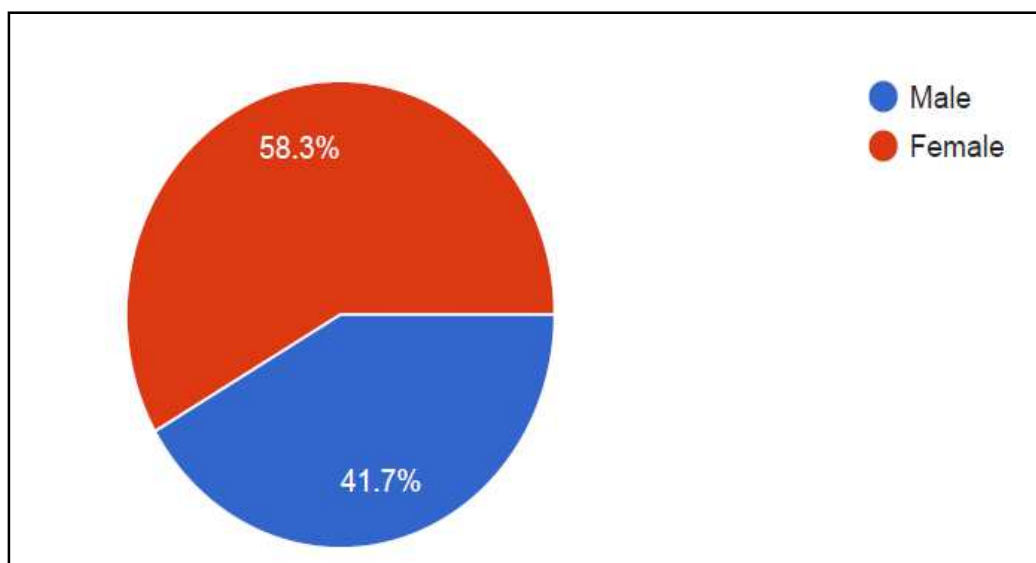
Dr. Subhankar Sarkar, Deputy Coordinator of ENVIS-RP then introduced the speaker, Dr. Suman Bandyopadhyay, Head, Upstream Process Development, Dr. Reddy's Laboratories Ltd., Hyderabad. Dr. Bandyopadhyay then delivered a detailed lecture on Biologic Drugs and Biosimilars. He started his discussion on production of insulin, and also discussed tocilizumab and other drugs. He delineated how such drugs differ from what are called 'small molecule' drugs, in terms of their biological appendages (linked protein molecules etc.) biocompatibility and specificity (binding to specific sites in biomolecules) and other properties. The mode of action of such drugs was discussed in detail. He stressed the details of testing and trial of such drugs in various phases once they are formulated, and how their production is scaled up from the laboratory bench to pilot scale to the final production unit. He also mentioned biosimilar drugs and the efforts of Indian drug manufacturers and researchers to produce pharmaceuticals at much reduced cost. He also talked of patents and

IPR issues, latest protocols regarding drug developments and also discussed use of artificial intelligence in development of pharmaceuticals.

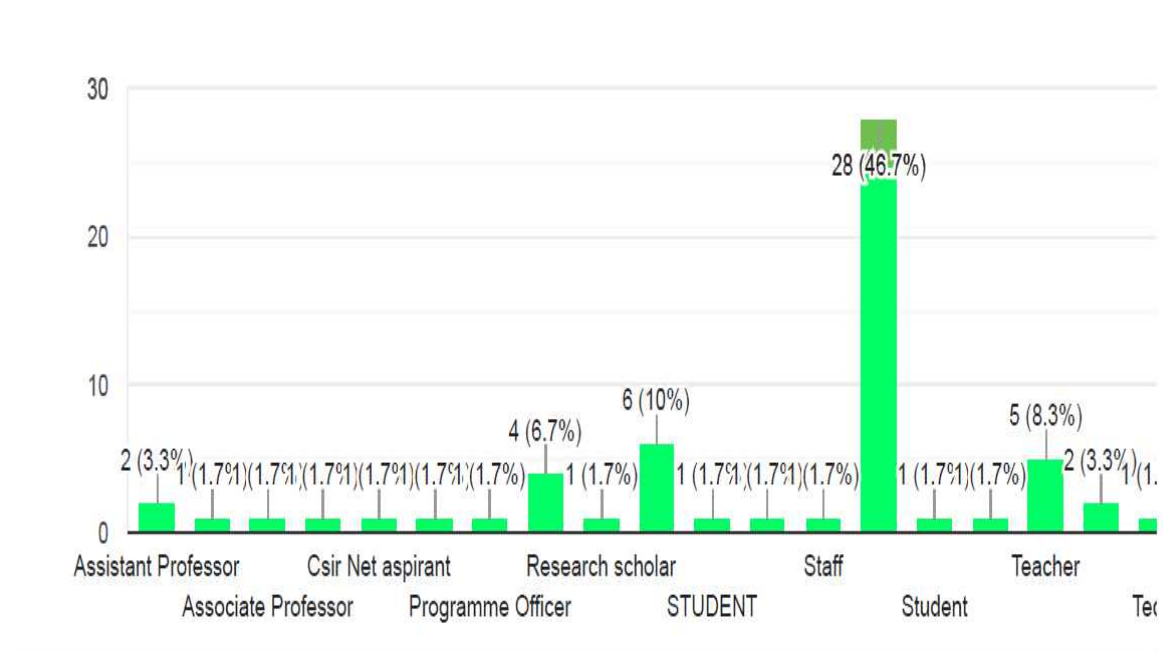
The talk was of one and a half hour duration, during which the participants were enthralled by his delivery. Finally, there were many questions from the audience on the topic, which were all very ably explained by Dr. Bandyopadhyay.

The vote of thanks was then delivered by the Coordinator, Prof. Asoke P. Chattopadhyay.

A total of **60 participants** attended the webinar, **58.3%** were **female** and **41.7%** **male**. Of the participants about 61% are students of UG & PG and rest are academicians.



Break-up of male and female participants



Further details of participants



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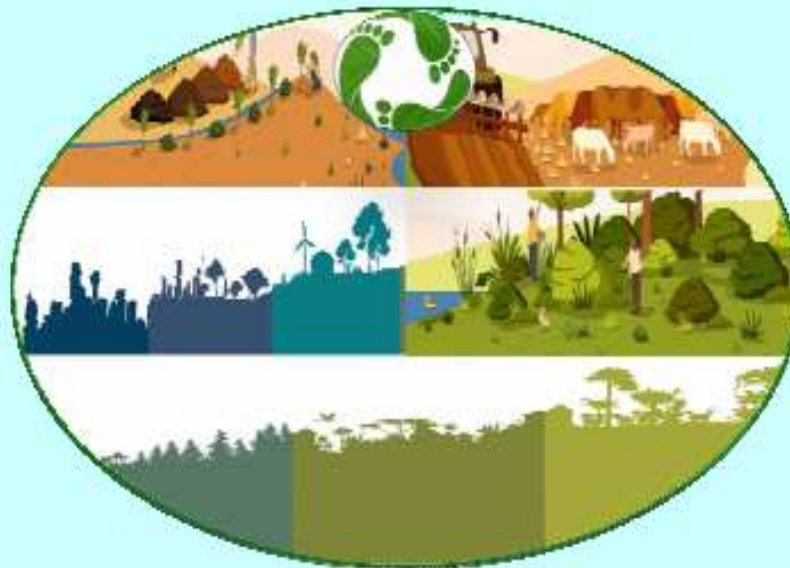
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Environmental Sustainability and Ecological Foot Print



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Cover page of the ENVIS newsletter on Environmental Sustainability and Ecological
Footprint (ISSN: 09742476, Vol-38, 1)

Photo Gallery of the Webinar

