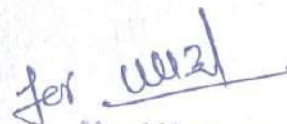


**Inauguration of Microbiology Biotechnology Society Student Unit
for the session 2021-22**

The Microbiology Biotechnology Society Student Unit for the session 2020-21 has been inaugurated online on Tuesday, 1st February 2022 at 12.30 pm. The programme was chaired by Dr. Om Mahodaya, Principal, Bajaj College of Science, Wardha who delivered the presidential speech. The inauguration was done on the hands of Dr. A. M. Deshmukh, President, Microbiologist Society, India (MSI). The introductory speech was delivered by Dr. Mrs. S. S. Khandare, HOD, Department of Microbiology. She explained the background of the programme and introduced the office bearers of the Microbiology Biotechnology Society Student unit for the session 2021-22. The guest of honour was Dr. Sanjeev Patankar, Ex Principal, SS Jaiswal College, Arjunimor, Dist. Gondia and President, MSI, Maharashtra and Goa region who addressed the students about the role of students in student unit. **On this Occasion Dr. Rahul Bhoyar, Project Scientist, CSIR Institute of Genomics and Integrative Biology, New Delhi delivered a guest lecture on the topic "Next generation sequencing : A vital Tool in disease diagnosis and Pandemic Management"** Total 110 undergraduate and Postgraduate students along with Microbiology and Biotechnology faculty members were present for the programme. The comparing of the programme was done by Dr. Bhavana Mohite. The question answer session was nicely conducted by Dr. Kunal Kale. The vote of thanks was given by Dr. Ulka Malode-Bidwai, Coordinator, Biotechnology Department and Microbiology Biotechnology Society Student Unit.


Head / Incharge
Department Of Microbiology
Bajaj College Of Science, Wardha

Recording You are viewing BCS Wardha's screen View Options View

PPT for MSI Student Unit Inauguration & guest lecture - Microsoft PowerPoint (Product Activation Failed)

Mansi selghare

Unmute
Start Video
Participants 91
Share Screen
Reactions
Apps
More
Leave

Zoom Meeting Recording

PPT for MSI Student Unit Inauguration & guest lecture - Microsoft PowerPoint (Product Activation Failed)

12:39 PM

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Recording View

Shiksha Maeda's
Bajaj College of Science, Wardha
(Autonomous)
DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY

in collaboration with
Microbiologist Society India (MSI)

Microbiology- Biotechnology Society
Student Unit Inauguration
&
Guest Lecture on

" Next-generation Sequencing: A vital tool in Disease
Diagnosis and Pandemic Management"
1st february 2022

Welcomes You

Suhas Khandare

ulka malode

Rushabh ladekar

Rushabh ladekar

Dr. Om Mahodaya

Unmute Start Video Participants 118 Share Screen Reactions Apps More Leave

12:46 PM

Zoom Meeting Recording

Shiksha Maeda's
Bajaj College of Science, Wardha
(Autonomous)
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Microbiology- Biotechnology Society
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" Next-generation Sequencing: A vital tool in Disease
Diagnosis and Pandemic Management"
1st february 2022

Welcomes You

Pradunya Kumb...

Pradunya Kumbhare1...

ulka malode

K

Khushboo Nimje B11 ...

Dr. Om Mahodaya

Unmute Start Video Participants 118 Share Screen Reactions Apps More Leave

12:41 PM

Zoom Meeting | You are viewing BCS Wardha's screen | View Options

Recording | View

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the following text: "Shikha Mondal's Bajaj College of Science, Wardha (Autonomous) DEPARTMENT OF MICROBIOLOGY AND BIOTECHNOLOGY. In collaboration with Microbiologist Society India (MSI) Microbiology- Biotechnology Society Student Unit Inauguration & Guest Lecture on 'Next-generation Sequencing: A vital tool in Disease Diagnosis and Pandemic Management' 1st February 2022 Welcomes You". The slide also features logos of the college and the society. On the right side, there is a gallery of four participants: Dr. Om Mahodaya, ulka malode, sanjeev patankar, and Dr. Bhavana Mohite. The bottom toolbar includes icons for Unmute, Start Video, Participants (114), Share Screen, Reactions, Apps, More, and Leave. The system tray at the bottom shows the time as 12:49 PM.

Zoom Meeting | You are viewing BCS Wardha's screen | View Options

Recording | View

This screenshot shows the same Zoom meeting interface as above, but with a different participant visible in the gallery. The presentation slide remains the same. The gallery now shows only one participant, Arvind Deshmukh. The bottom toolbar shows the number of participants as 111. The system tray at the bottom shows the time as 12:50 PM.

Microbiology- Biotechnology Society
Student Unit Inauguration 2021-22



President
Ms. Rakshanda Pathan
(M.Sc. IInd Year- Sem III)



Secretary
Ms. Ruchika Nimabalkar
(B.Sc. IIIrd Year- Sem VI)



Treasurer
Ms. Shweta Magar
(B.Sc. IIIrd Year- Sem VI)



Arvind Deshmukh

Zoom Meeting

Recording

Guest of Honour

Dr. Sanjeev Patankar

President, Microbiologist Society, India , Maharashtra & Goa Region
Ex Principal, SS Jaiswal College, Arjunimor, Dist. Gondia


sanjeev patankar

Windows taskbar: 12:55 PM


Zoom Meeting

Recording

Guest of Honour



Dr. Sanjeev Patankar
President, Microbiologist Society, India , Maharashtra & Goa Region
Ex Principal, SS Jaiswal College, Arjunimor, Dist. Gondia



sanjeev patankar

12:56 PM

Zoom Meeting

Recording

Speaker

Next-generation Sequencing: A vital tool in Disease Diagnosis and Pandemic Management



Dr. Rahul C. Bhojar
Project Scientist,
CSIR- Institute of Genomics and Integrative Biology, New Delhi, India

Research Projects:

- Project Scientist: CSIR- Institute of Genomics and Integrative Biology, New Delhi, India (2021-Present)
- Project Associate: CSIR- Institute of Genomics and Integrative Biology, New Delhi, India (2018- 2020)
- Research Fellow: Dept. of Zoology RTM Nagpur University, Nagpur, India (2013-2017)

Research Publications: 29

Awards:

- Best oral presentation- International Conference on Breakthrough in Toxicology and Human Health, Jiwaji University, Gwalior, India. (2019)
- Best oral presentation- Humboldt Kolleg on Comparative Endocrinology and Physiology, RTM Nagpur University, Nagpur, India. (2019)
- Research Grants- Bi-nationally Supervised Doctoral Degrees DAAD. (2018)
- Awarded with the membership as Early Career Scientist for the SEB Journals by Society for Experimental Biology, London. (2015-2016)



Dr. Bhavana Mohite

1:03 PM

Zoom Meeting

Recording

Next-Generation Sequencing: A Vital tool in Disease Diagnosis and Pandemic Management

Dr. Rahul C. Bhoyar
Project Scientist
CSIR Institute of Genomics & Integrative Biology (IGIB)

Rahul Bhoyar

1:04 PM

Zoom Meeting

Recording

Nucleic acid Sequencing

Process of determining the nucleic acid sequence in a precise manner

Next-Generation Sequencing

- Whole Genome/ De-Novo Sequencing
- Phylogenomics
- Outbreak Management
- Personalized Medicine

Rahul Bhoyar

1:06 PM

Zoom Meeting Recording

THE SEQUENCE EXPLOSION

The Sequence Read Archive (SRA) houses raw data from sequencing projects, representing the largest public repository of sequencing data. If the data were to be compressed to 100% efficiency, it would still require 100 TB of storage capacity.

ACCELERATED SEQUENCING
The first generation sequencing (FGS) technology was developed in 2005, allowing for the rapid and cost-effective sequencing of large amounts of DNA.

SEQUENCING CAPACITY
The first generation sequencing (FGS) technology was developed in 2005, allowing for the rapid and cost-effective sequencing of large amounts of DNA.

SEQUENCING IN CLINICAL
The first generation sequencing (FGS) technology was developed in 2005, allowing for the rapid and cost-effective sequencing of large amounts of DNA.

THE SEQUENCE EXPLOSION
The first generation sequencing (FGS) technology was developed in 2005, allowing for the rapid and cost-effective sequencing of large amounts of DNA.

Rahul Bhojar

Zoom Meeting Recording

Rare Genetic Disorders

Rare Genetic Disease - An inherited disorder affects 100 patients per 100,000 individuals.

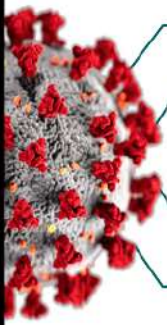
- Worldwide, **7,000 rare diseases** are believed to collectively affect **30- 40 million people** (Simons et al., 2012)
- 8,135 genetic disorders** have been catalogued (OMIM, June 2016)
- 1,580 genetic disorders** are inherited frequently as compared to others (FIDD, 2015)

Rahul Bhojar

Zoom Meeting

Recording

SARS-CoV-2 : a novel coronavirus strain



- Causative organism for this pandemic:
- 25,903 nucleotide long single stranded RNA virus
- 79% similarity with SARS-CoV (2013 SARS Epidemic);
50% similarity with MERS-CoV
Lu, P. et al. (Lancet, 2020)
- Similar to coronaviruses previously identified in bats
F. Yu et al. (Nature Feb 2020)
Shaw et al. (PLoS ONE, Feb 2020)
Andersen, F. et al. (Lancet, March 2020)

Rahul Bhojar

1:38 PM

Zoom Meeting

Recording

Sequencing the Causative Organism

A new coronavirus associated with human respiratory disease in China
Wu et al. Nature, 3 Feb 2020



41-year-old male
Worker at Wuhan
Seafood market

Bronchoalveolar
lavage fluid

Metagenomic
RNA
sequencing

Shanghai Public
Health Clinical Center

Rahul Bhojar

1:40 PM

Zoom Meeting You are viewing Rahul Bhojar's screen View Options

Recording View

Asymptomatic Reinfection in 2 Healthcare Workers From India With Genetically Distinct Severe Acute Respiratory Syndrome Coronavirus 2

Vivek Gupta¹, Rahul C. Bhojar², Abhinav Jain^{2,3}, Saurabh Srivastava¹, Rashmi Upadhyay¹, Mohamed Imran², Bani Iolly^{2,3}, Mohit Kumar Divakar^{2,3}, Disha Sharma^{2,3}, Paras Sehgal^{2,3}, Gyan Ranjan^{2,3}, Rakesh Gupta¹, Vinod Scaria^{2,3}, Snishtha Sivasubbu^{2,3}

(A) Timeline of infection events for individuals 11 and 12, showing asymptomatic reinfections.

(B) Genetic analysis of the spike protein region, showing distinct mutations for individuals 11 and 12.

Unmute Start Video Participants 70 Share Screen Reactions Apps More Leave

1:49 PM

Zoom Meeting

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← Rashmi yadav Vaishnavi Dalw... →

ÄkShIt Chamke Rashmi yadav Vaishnavi Dalwankar

BCS Wardha

Unmute Start Video Participants 54 Share Screen Reactions Apps More Leave

2:11 PM

Zoom Meeting

View

←

ĀkShit Chamke

Rashmi yadav

Rashmi yadav

Shruti kalmegh

Shruti kalmegh

→

Recording

BCS Wardha

Unmute

Start Video

Participants 53

Share Screen

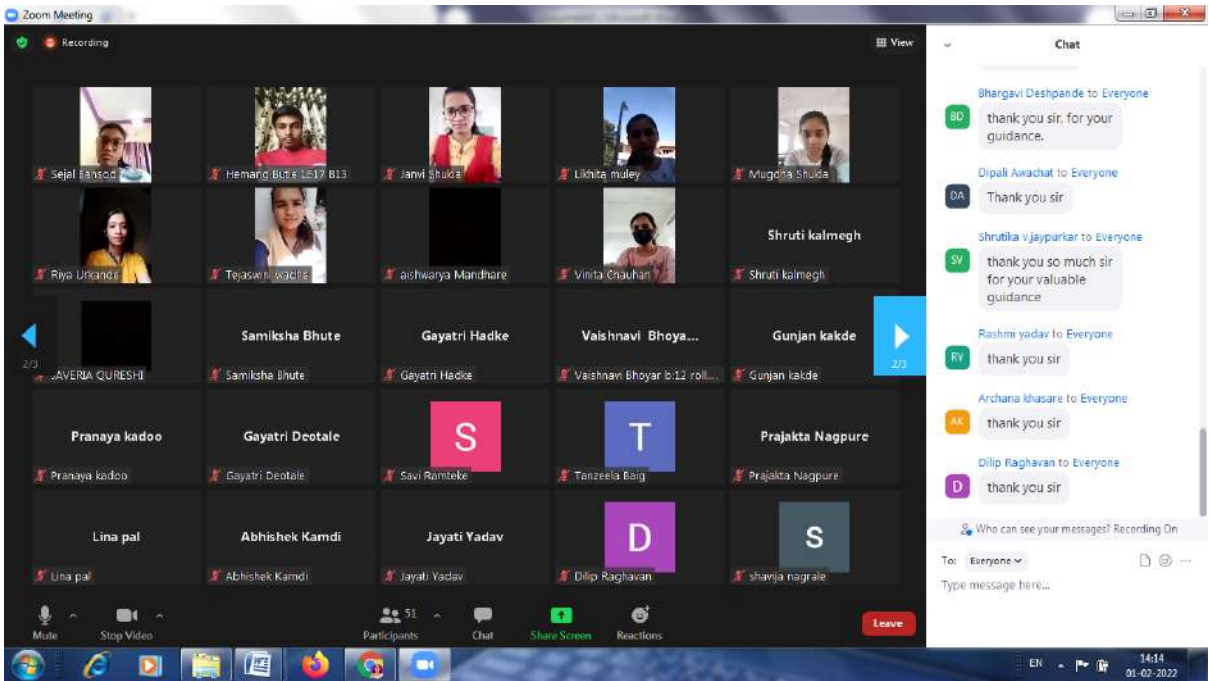
Reactions

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Leave

2:12 PM



Zoom Meeting

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View

			Riya Urkande	Shruti kalmegh
	Samiksha Bhute	Gayatri Hadke	Vaishnavi Bhoya...	Gunjan kakde
Pranaya kadoo	Gayatri Deotale			Prajakta Nagpure
Lina pal	Abhishek Kamdi	Jayati Yadav		Pranjali Zade

Mute Stop Video Participants Chat Share Screen Reactions Leave

Chat

Bhargavi Deshpande to Everyone
BD thank you sir, for your guidance.

Dipali Awachat to Everyone
DA Thank you sir

Shrutika vjaypurkar to Everyone
SV thank you so much sir for your valuable guidance

Rashmi yadav to Everyone
RY thank you sir

Archana khasare to Everyone
AR thank you sir

Dilip Raghavan to Everyone
D thank you sir

Who can see your messages? Recording On

To: Everyone

Type message here...

EN 14:14 01-02-2022