

Department of Microbiology

ACTIVITIES

2021-22

Webinar Lecture on

International Microorganisms Day-2021



Department of Microbiology,
Institute of Home Economics
University of Delhi
(Under the Aegis of DBT Star College Scheme)
& **Microbiologists Society, India**
celebrating

"INTERNATIONAL MICROORGANISM DAY",
on 17th September 2021, 2:30-4:30pm



Talk 1

"Challenges of addressing
Antimicrobial Resistance
(AMR)"

Prof. J.S. Virdi
(Former Professor)
Dept. of Microbiology
University of Delhi,
South Campus



at 2:30pm

Talk 2

"The unmatched power of
microorganisms:
An ode to the unseen heroes"

Prof. Shilpi Sharma
Dept. of Biochemical
Engineering & Biotechnology
IIT Delhi



at 3:30pm

Meeting link: <https://meet.google.com/mwx-jxdy-uwr>

Patron
Prof. (Dr.) Geeta Trilok Kumar
Director, IHE

MSI
Prof. A M Deshmukh (President, All India MSI)
Dr. A. Archana (President, Delhi Unit MSI)

Convenor
Dr. Sunita Aggarwal
(Program Coordinator Star College Scheme,
State Coordinator MSI)

Coordinators
Dr. Arti Nigam (TIC, Dept. of Microbiology)
Dr. Rashi Gupta (Assistant Professor, Dept. of Microbiology)

Student Coordinator
Kinjal Gupta

- The department has celebrated **International Microorganisms Day** on 17th September 2021. On this occasion two webinar lectures have been delivered by renowned Microbiologists- **Prof. J. S. Virdi** and **Prof Shilpa Sharma** on the topics "*Challenges of addressing Antimicrobial Resistance*" and "*The unmatched power of microorganisms: An ode to the unseen heroes*" respectively.
- Students and faculties from various colleges have attended the event. The talks were very informative in which Prof Virdi explains the importance of antimicrobial resistance and its causes. While Prof Shilpi explains the various applications of the microbes. Both the talks were very informative and appreciated by the students and faculty.
- Total Number of Attendees= 82



Department of Microbiology
Institute of Home Economics
University of Delhi
(Under the aegis of DBT Star College Scheme & IQAC)
in association with
Microbiologists Society, India



Organizing a Webinar on

Targeting telomerase promoter-potential Achille's Heel in Cancer



Speaker

Dr. Shalu Sharma

Post-Doctoral Research Fellow
National Cancer Institute (NIH)
Maryland, USA

Date & Time

1st October, 2021 @ 4 pm

Meeting link: <https://meet.google.com/jam-xndh-dae>

Patron

Prof. (Dr.) Geeta Trilok Kumar
Director, IHE

Convenor

Dr. Sunita Aggarwal
(Program Coordinator,
DBT Star College Scheme &
State Coordinator, MSI)

Microbiologists Society, India

Prof. A. M. Deshmukh (President, All India MSI)
Dr. A. Archana (President, Delhi Unit MSI)

Student Coordinators

Aishani Chakraborty
Mrinalini Venugopal

Coordinators

Mrs. Nitika Nagpal (Associate Professor)
Dr. Ashok Saini (Assistant Professor)

Webinar Lecture on CANCER Biology

The department had organised a webinar on cancer biology entitled “*Targeting telomerase promoter potential Achilles Heel in Cancer*” on 1st October, 2021.

The talk was delivered by **Dr Shalu Sharma**, Post-Doctoral Fellow, National Cancer Institute, NIH, Maryland, USA. She had described the role of telomerases in the cancer and share her research on the same. The webinar was a very informative webinar and motivating for the students. The talk was attended by the students and faculties of different colleges and appreciated by all.

- Total Number Of Attendees= 60



**DEPARTMENT OF MICROBIOLOGY
INSTITUTE OF HOME ECONOMICS**



University of Delhi
(Under the Aegis of DBT Star College Scheme and IQAC, IHE)
& MICROBIOLOGISTS SOCIETY, INDIA

is organizing
A WEBINAR

On

**Probiotics : Alternative Medicine
or
An Evidence-based Alternative?**

Speaker

Date

7th Oct. 2021



Time

2pm-3pm (IST)

Prof. Colin Hill

University College Cork, Ireland (UCC)

Colin Hill is a Professor in the School of Microbiology at University College Cork, Ireland. He is also a founding Principal Investigator in APC Microbiome Ireland, a large research centre devoted to the study of the role of the gut microbiota in health and disease. His main interests lie in the role of the microbiome in human and animal health.

Webinar link: <https://meet.google.com/yym-bdft-zng>

Registration link : <https://forms.gle/jlw3CqLfHaAPnZjB6>

Patron

Prof. (Dr.) Geeta Trilok Kumar

Director, IHE

Coordinator

Dr. Pratishtha

Dr. Ashok Saini

MSI

Prof. A.M. Deshmukh

(President, All India MSI)

Dr. A. Archana

(President, Delhi Unit MSI)

Convener

Dr. Sunita Aggarwal

(Program Coordinator Star College Scheme, State Coordinator MSI)

Student Coordinator

Gunnpreet Kaur

Webinar Lecture on **Probiotics: Alternative medicine**

Probiotics is an emerging research area in the discipline of food microbiology. Probiotics are the microorganisms which when added to the food increases its nutrition value and provide various health benefits. So, to convey their importance the department had organised a webinar on "**Probiotics- alternative medicine or an evidence-based alternative?**" on 7th October, 2021.

The talk was delivered by **Prof. Colin Hill**, Professor, School of Microbiology, University College Cork, Ireland. He had explained the topic in very detail and participants have learned about the different benefits of probiotics and how they can be act as an alternative to antimicrobial therapy. The use of probiotics is more beneficial as it could stop the spread of multidrug-resistant microbes and can be used as an alternative to any other antimicrobial therapies. The talk appreciated by the students and the faculty.

Total number attendees= 99



Department of Microbiology
Institute of Home Economics
University of Delhi
(Under the Aegis of IQAC & DBT Star College Scheme)



In collaboration with
BioNEST-UDSC
(University of Delhi, South Campus)
Organizes

A talk on
**Bio-Entrepreneurship and
Introduction to BioNEST-UDSC**

Vijay Kantharia
CEO: BioNEST-UDSC,
Founder: Cerebroz EduTree



October 8, 2021 at 3 pm

E-certificates will be provided

Meeting link: <https://meet.google.com/juu-yyui-qhb>

Prof. Geeta Trilok Kumar
Director,
IHE

Prof. Swati Saha
Coordinator,
BioNEST-UDSC

Prof. Rani Gupta
Nodal Officer,
BioNEST-UDSC

Prof. Rajeev Kaul
Joint Nodal Officer,
BioNEST-UDSC

Prof. Y P Khasa
Joint Nodal Officer,
BioNEST-UDSC

Mr. Vijay Kantharia
CEO,
BioNEST-UDSC

Dr. Sunita Aggarwal
Program Coordinator

Dr. Arti Nigam
Teacher-in-charge

Dr. Rashi Gupta
Assistant Professor

Dr. Ashok Saini
Assistant Professor

Talk on **Bio Entrepreneurships & Introduction to BioNEST-UDSC**

The department of Microbiology, South Campus, University of Delhi has an approved Incubation (Bio-NEST) centre from Govt. of India. So, to spread awareness regarding the work and services provided by the centre, department of microbiology had conducted a talk on "***Bio-entrepreneurship and Introduction to BioNEST-UDSC***" among the faculty and students on 8th October 2021. **Mr Vijay Kantharia**, CEO, BioNEST-UDSC had delivered the talk. The talk appreciated by the students and the faculty.

Total number attendees= 50



**DEPARTMENT OF MICROBIOLOGY
INSTITUTE OF HOME ECONOMICS**



University of Delhi

(Under the Aegis of DBT Star College Scheme and IQAC, IHE)
& MICROBIOLOGISTS SOCIETY, INDIA

is organizing

A WEBINAR On

Studying Principles of Tissue Morphogenesis

Speaker

Date

18th Oct. 2021



Time

5:30pm(IST)

Dr. Akankshi Munjal

Incoming Assistant Professor, Dept. Of Cell Biology,
Duke University, USA

Webinar link- <https://meet.google.com/axh-hkss-qq>

Registration link- <https://forms.gle/wghkrSK4RTiRePRWA>

Convener

Patron
Prof. (Dr.) Geeta Trilok Kumar
Director, IHE

MSI

Coordinator
Dr. Ashima Vohra(Associate Professor)
Dr. Arti Kumari (Assistant Professor)

Prof. A.M. Deshmukh
(President, All India MSI)

Dr. A. Archana
(President, Delhi Unit MSI)

Dr. Sunita Aggarwal
(Program Coordinator Star College
Scheme, State Coordinator MSI)

Student coordinator
Gunnpreet kaur

Webinar Lecture on PRINCIPLES OF TISSUE MORPHOGENESIS

Our body is made up of trillions of cells. These cells are organised into various tissues which then further organised to form a organ. So, it is very interesting to know how these tissue forms by the cells. Tissue morphogenesis hence describes the processes by which a tissue takes shape which involve changes in cell number, size, shape, and position. So, the department had organised a webinar on “*Studying Principles of Tissue Morphogenesis*” on 18th October, 2021 to impart the knowledge of students on the topic.

The talk was delivered by **Dr. Akankshi Munjal**, Incoming Assistant Professor, Department of Cell Biology, Duke University, USA.

The talk was very informative and the students gained knowledge about tissue morphogenesis and the various processes involved in it. The talk was appreciated by the students and the faculty.

Total number of attendees=40

Webinar Lecture on *Probiotics and Prebiotics*

Speaker



Prof. Bruno Pot
Vrije Universiteit Brussel
(Belgium)

Prof. Bruno Pot is a visiting faculty at the Vrije Universiteit Brussel (Belgium). He is a member of the Taxonomic Subcommittee for *Lactobacillus*, *Bifidobacterium* and related taxa, President of the Pharmabiotic Research Institute (PRI), Narbonne, France and a founding member of the European Scientific League for Probiotics (ESLP), Belgium. He has worked as Research Director at the Institut Pasteur in Lille, France, specializing in fundamental research field in probiotics, bacteria host interactions and health claim substantiation.



**DEPARTMENT OF MICROBIOLOGY
INSTITUTE OF HOME ECONOMICS**

University of Delhi



(Under the Aegis of DBT Star College Scheme and IQAC, IHE)
& MICROBIOLOGISTS SOCIETY, INDIA

is organizing
A WEBINAR
On

Probiotics and Prebiotics : Who are they? What do they do ?



Webinar link: <https://meet.google.com/dzm-ivya-qkn>

Registration link: <https://forms.gle/M8R8j1BESxyJEkG48>

Patron
Prof. Geeta Trilok Kumar
Director, IHE

Convener
Dr. Sunita Aggarwal
(Program Coordinator Star College Scheme,
State Coordinator MSI)

MSI
Prof. A.M. Deshmukh
(President, All India MSI)

Dr. A. Archana
(President, Delhi Unit MSI)

Coordinator
Dr. Pratishtha
Dr. Ashok Saini

The Department has organized another webinar in the continuation of the webinar on the topic Probiotics held on 7th lectures on 7th October, 2021 to enhance the knowledge of the students on this important topic.

The talk was delivered by **Prof. Bruno Pot**, Faculty, Vrije University Brussel, Belgium on the topic "*Probiotics and Prebiotics: Who are they? What do they do?*" on 19th October, 2021.

Prof. Pot had described the probiotica and prebiotics in a very simple way and further their importance in developing healthier gut microflora. The talk was very informative which gives an insight into the topic to the participants. The lecture series was attended by Faculties and undergraduate students from different DU colleges and well appreciated.

More than 150 attendees joined this webinar using Google meet and YouTube link.

Total Number of Attendees= 99 (on Google meet) and 40+ on YouTube channel.



Department of Microbiology

Institute of Home Economics
University of Delhi
(under the aegis of DBT Star College Scheme)



IN ASSOCIATION WITH

Microbiologists Society India

is organising

A Talk on

*My journey in Translational research-
addressing the challenge of
Tuberculosis diagnosis.*

Coordinator

Dr Rashi Gupta
Dr Ashok Saini

**Student
Coordinator**
Gunnpreet

Speaker

Dr Sagrika Halder

Assistant Professor,
Department of Experimental Medicine and Biotechnology
PGIMER, Chandigarh

Date & Time

28/10/2021
@ 3:00 pm

Patron
Prof. Geeta Trilok-Kumar
Director, IHE

Convenor
Dr. Sunita Aggarwal
Program Coordinator Star College
Scheme & State Coordinator MSI

Prof. A.M. Deshmukh
President, All India MSI

Dr. A. Archana
President, Delhi Unit MSI

Dr. Arti Nigam
Teacher-in-charge

Webinar link
<https://meet.google.com/yiv-tzxg-was>

Webinar Lecture on **Tuberculosis Diagnosis**

Tuberculosis (TB) is a potentially serious infectious disease that mainly affects the lungs caused by a bacterium called *Mycobacterium tuberculosis*. The bacteria spread from person to person through tiny droplets released into the air via coughs and sneezes. In 2020, an estimated 10 million people fell ill with tuberculosis (TB) worldwide out of which 1.5 million people. Worldwide, TB is now the 13th leading cause of death. So, its diagnosis at early stage is required. Thus, the department had conducted a talk on "*My Journey in Translational research-addressing the challenge of Tuberculosis diagnosis*" on 28th October 2021. **Dr Sagrika Halder**, Assistant Professor, PGIMER, Chandigarh had delivered the talk and explains the various diagnostic methods used to detect the bacteria as well as their limitations. The talk was very informative which gives an insight into the topic to the participants. The talk was attended by Faculties and undergraduate students from different DU colleges and well appreciated.

Total Number of Attendees= 90



DEPARTMENT OF MICROBIOLOGY
INSTITUTE OF HOME ECONOMICS

University of Delhi

(Under the Aegis of DBT Star College Scheme and IQAC, IHE)

AND MICROBIOLOGISTS SOCIETY, INDIA

is organising
A WEBINAR
on

**"NEXT ERA IN INFECTIOUS DISEASE MANAGEMENT -
CHANGING LANDSCAPE OF MEDICAL TECHNOLOGIES
AND PUBLIC HEALTH"**

Our speaker - Dr. Priyanka Bajaj

Date

29th October, 2021

Time

3 pm



Priyanka Bajaj, Ph.D
Manager - Health and Innovation Impact Lab

Webinar link - <https://meet.google.com/gfc-ecgc-dfi?pli=1&authuser=1>

Patron

Prof. Geeta Trilok Kumar
Director, IHE

MSI

Prof. A. M. Deshmukh
(President, All India MSI)

Coordinators

Dr. A. Archana
(President, Delhi Unit, MSI)

Convener

Dr. Sunita Aggarwal
(Program Coordinator, Star
College Scheme, State Co-
ordinator, MSI)

Student Co-ordinator

Rhea Bhalla

Dr. Ashima Vohra (Associate Professor)
Dr. Ashok Saini (Assistant Professor)



Webinar Lecture on **Infectious Disease Management**

- The Department has organized an alumni interactive webinar on "*Next Era in Infectious Disease Management- Changing Landscape of Medical Technologies and Public Health*" on 29th October, 2021.
- The talk was delivered by our alumni **Dr. Priyanka Bajaj**, Manager, Health and Innovation Impact Lab. Dr Priyanka had discussed various new technologies available in market using for the detection and managing of various infectious diseases especially COVID-19. She also guided the students for further carrier paths. The talk was very informative and students became highly motivated and appreciated the event.
- Total number of attendees= 39

Webinar Lecture on *Awareness about Biowaste Management*



Institute of Home Economics
University of Delhi
(Under the Aegis of DBT Star College Scheme)



Environment and Community
Outreach Committee,
Department of Microbiology and
IQAC

Presents Webinar



BIO WASTE and ITS MANAGEMENT

15th NOV 2021, 12:15-1:30 PM

(E-certificates will be given to the participants)

Prof. J.S. Virdhi

(Former Professor),

Dept. of Microbiology,
University of Delhi,
South Campus

Join Zoom Meeting

<https://zoom.us/i/91248715686?pwd=TDNwcWxmcGpHVHd1d3U2WHliclk5dz09>

Patron- Prof. (Dr.) Geeta Trilok Kumar Director, IHE

Dr. Parmita Singh (Convenor),
Dr. Manjula Suri (Member)
Dr. Bhupinder Kaur (Member)

Dr. Sunita Aggarwal (Dept. Of Microbiology)
Dr. Sandeep Yadav (Dept. Of Biochemistry)

Bio-waste included biodegradable garden and park waste, food and kitchen waste from households, restaurants, caterers and retail premises, and comparable waste from food processing plants. In a webinar series on waste management, the department of microbiology in association with the environmental committee had organized a webinar lecture on "**Biowaste and It's Management**" on 15th November, 2021 to create awareness among students. The talk was delivered by **Prof. J.S. Virdhi**, Former Professor, Department of Microbiology, UDSC. He had explained the reasons of increasing up of such wastes and their harmful effects on environment and health. He also discussed about the need of proper disposal and management of these wastes. The talk was attended by Faculty members and undergraduate students from different DU colleges. The event was well appreciated by all.

Total number of attendees= 60

Webinar Lecture on ***Awareness about Waste Management***



Institute of Home Economics

University of Delhi

(Under the Aegis of IQAC and DBT Star
College Scheme)



Environment & Community Outreach Committee & Dept. of Microbiology

Presents Webinar on

"Solid, Hazardous, Electronic & Plastic Waste Management"

20th November 2021, 11 AM

(E-certificates will be given to all the participants)



Professor Satish S. Patil

Professor
Department of Environmental Science
Dr. Babasaheb Ambedkar Marathwada
University



Meeting ID: 918 8294 7633

Passcode: 931697

Join Zoom Meeting : <https://zoom.us/j/91882947633pwd=YVJQVHZud1lRUndITWZXckltQnVCZz09>

Patron

Dr. Pratima Singh (Convenor) Dr. Reema Chaurasia (Member) Dr. Sunita Aggarwal (Dept of Microbiology)
Dr. Manjula Suri (Coordinator) Dr. Sonal Gupta Jain (Member) Dr. Priya Dangi Malik (Dept of FNFT)
Dr. Ruchira Das (Member) Dr. Kavita Sagar (Member) Dr. Sneha Abhishek (Member)

Different kind of waste is generated daily in tons in Delhi having plastics, solid items and hazardous electronics. The management of this waste is utmost important as landfills are already overloaded. In continuation with the earlier webinar on waste management, the department of microbiology in association with the environmental committee had organized a webinar lecture on "*Solid, Hazardous, Electronic and Plastic Waste Management*" on 20th November, 2021 to create awareness

The talk was delivered by **Prof. Satish S. Patil**, Professor, Department of Environmental Science, Dr. Babasaheb Ambedkar Marathwada University. He had explained the reasons of increasing up of such wastes and their harmful effects on environment and health. He also discussed about the need of proper disposal and management of these wastes. The talk was attended by Faculty members and undergraduate students from different DU colleges.

The event was well appreciated by all.

Total number of attendees= 60

Webinar Lecture on **JPR Awareness**



Intellectual property is a category of property that includes intangible creations of the human intellect. There are many types of intellectual property includes copyrights, patents, trademarks, and trade secrets etc.

Inadequate knowledge about the rights of individuals to protect their ideas and innovations and low awareness about the procedures involved in obtaining an IPR has hindered India's growth in Intellectual Property. So, GOI make a National IPR Policy to enhance creativity, innovation, competitiveness and economic growth in India. Thus, to take it forward department of microbiology in association with DPIIT had conducted an awareness programme on 14th January 2022. The lecture was delivered by **Ms. Tripti Pandey**, Examiner of Patents & Designs, O/o CGPDTM, DPIIT. She had covered all the basic concept of IPR and its types to the participants. The webinar was very informative and attended by more than 70 participants.

INTERNATIONAL WOMEN'S DAY CELEBRATION



INSTITUTE OF HOME ECONOMICS

University of Delhi

Department of Physiology & Promotive Health

&

Department of Microbiology

(Under the Aegis of 'DBT Star College Scheme')

In collaboration with

National Centre for Disease Control

Celebrates

"INTERNATIONAL WOMEN'S DAY"

Programme

Talk by Dr. Anshu Sharma on 'Reproductive Health'



Dr. Anshu Sharma

(Ex-Additional Director and HOD, Non-communicable diseases division & Biochemistry divisions at NCDC Delhi)

Prize distribution for Quiz By NCDC team



On the occasion of **International Women's Day 2022**, the Department of Microbiology & Department of Physiology in association with Non-communicable diseases division & Biochemistry division, NCDC, New Delhi had organized a webinar lecture on awareness regarding reproductive health in women in offline mode on 8th March, 2022.

The lecture was delivered by **Dr. Anshu Sharma**, Ex-Additional Director, Non-communicable diseases division & Biochemistry division, NCDC, New Delhi. She interacted with students to promote awareness about **Reproductive Health in Women**. The talk was very informative and appreciated by the students and faculty.

In addition with lecture, a quiz competition has been conducted on Reproductive Health. About 40 students participated in the competition and the winners were awarded with trophies and cash prizes.

Total number of attendees= 45

Patron

Prof.(Dr.) Geeta Trilok Kumar
Director, IHE

Organising Committee

Dr.Arti Nigam
Mrs.Nitika Nagpal
Dr.Ashima Vohra

NCDC coordinators

Dr. Navin Verma
Deputy Director (PH), NCDC

Convenor

Dr. Manjula Suri
Dr. Sunita Aggarwal

Mrs.Sonia Chaudhary

Dr.Ashok Saini
Dr.Arti Kumari
Dr.Rashi Gupta

Student coordinators

Aditi Manocha
Gunnpreet Kaur

INTERNATIONAL WOMEN'S DAY 2022 - CELEBRATION

