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Kenneth Timmis (Chair, IMILI)
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International Microbiology Literacy Initiative - Regional Office New Delhi (IMILI-ROND) at PhiXgen Pvt. Ltd.



Celebrate
International Microorganism Day
MICROSPHERE 2.0

AN INTERNATIONAL OUTREACH PROGRAM
17th September, 2022

AN INITIATIVE TO PROMOTE MICROBIAL LITERACY & CELEBRATING THE DIVERSITY & WIDE APPLICATIONS OF **iMICROBESH**

INDIAN NETWORK FOR SOIL CONTAMINATION RESEARCH (INSCR)

FEDERATION OF EUROPEAN MICROBIOLOGICAL SCIENCES (FEMS)

& INTERNATIONAL SOCIETY FOR MICROBIAL ECOLOGY (ISME)



Federation of European Microbiological Societies



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 MANSI VERMA (SVC, DU)
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 PUSHP LATA (DEPT. OF ZOOLOGY, DU)
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 NIRJARA SINGHWI (DEV BHOOMI UTTARAKHAND UNIV.)
 VATSALA DWIVEDI (DYAL SINGH COLLEGE, DU)

Interactive Sessions on:

- Societally-Important Microbiology in Education: The International Microbiology Literacy Initiative
- Microbiome and Human Health: Societal Perspective
- "Seeing the unseen" Microbes in textbooks, under microscope and on culture plates/media
- Microbes: A source of Bioactive Compounds
- Raising awareness to better engage the community against viral outbreaks
- Microbes around you (Student Session)

SPECIAL ATTRACTION

MicroQuiz for School & College Students

*Cash Prizes & Certificate of Appreciation will be provided to top scorers



INTERNATIONAL MICROORGANISM DAY

September 17th is celebrated as the International Microorganism Day since 2017 to commemorate the milestone year of 1683 when Anton van Leeuwenhoek for the first time wrote a letter to Britain's Royal Society describing the "animalcules" which he had observed under the microscope as the first known description of bacteria.

Let us all take this day as an opportunity to raise awareness towards the significant contribution of microorganisms in our lives especially in the present times when a virus has made the world look them even more negative. These invisible ones are mightier than one can imagine and hence its the time to make everyone aware. Microbial Literacy in the society is the need of the hour if we dream a sustainable future.

WHO CAN ATTEND

School students, Undergraduates, Post-graduates, Research Scholars, School Teachers, College Teachers, Researchers, Parents, Family
 - Our Society

HOW CAN YOU REGISTER

- **Registration Fee: INR 100***
- *Free for School Students
- *Concession: Rs. 800 for 10 students from one institution
- Fill out the Registration Form:
<https://forms.gle/SbNCz6oL6xKnoq7V7>
- E-certificates shall be provided to all the participants
- Zoom meeting link shall be shared with all the registered participants



IMILI CHIEF AMBASSADOR

PROF. KENNETH TIMMIS
Institute of Microbiology,
Technical University,
Braunschweig, Germany



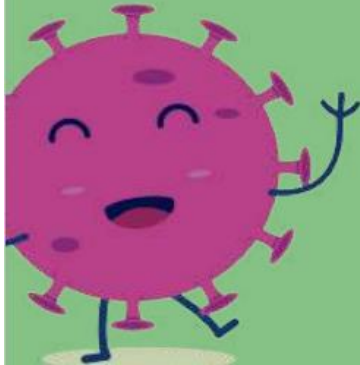
**IMILI - AMBASSADOR
(INDIA):**

PROF. RUP LAL
NASI Senior Scientist, TERI,
New Delhi, India



IMILI - AMBASSADOR:

PROF. Z CEREN KARAHAN
Ankara Uni. Ibn-i Sina
Investigation and Application
Hospital's Central
Microbiology Laboratory



About IMiLi

Microbes touch our lives in so many ways & they play key roles in a wide range of current crises faced by humanity, and of sustainability issues and in efforts to attain the Sustainability Development Goals. In order to be equipped to take crucial evidence-based decisions, we and all other decision takers need to understand the microbiological impacts on the issues at stake: there is an urgent need for microbiology literacy in society

(<https://sfamjournals.onlinelibrary.wiley.com/doi/epdf/10.1111/1462-2920.14611>).

The International Microbiology Literacy Initiative was launched with the aim of enabling and promoting microbiology literacy by creating and making freely available a unique set of resources for the teaching of selected microbiology topics to children to enable them develop into adults able to understand microbiology-impacted issues with which they are confronted, to take evidence-based decisions that affect them, their families and their communities, and to be able to fulfil their role as stakeholders in the collective stewardship of our planet. The current COVID-19 pandemic and extreme weather events due to global warming add urgency to the need for societal need for an understanding of relevant microbiology.

The centrepiece of the IMiLi is the curriculum The Topic Frameworks (TFs) series, a freely adaptable selection of generic lessons that can be adapted by teachers for children of all ages in diverse educational settings and for different teaching objectives. TFs are essentially stand-alone (i.e. can be mixed and matched at will by teachers to align with their teaching goals/interests), and do not need to follow a set sequence or depend upon prior TF-acquired knowledge. More than 300 such TFs each on a distinct microbiology aspect shall soon be made freely available for all.

The TFs will be supported by TF-specific class experiments, such as making bread, sourdough, pizza, yoghurt, and so on, to allow physical engagement with microbes and immerse the children in microbial activities.



IMiLi

International Microbiology Literacy Initiative



Get in touch

microsphere2021@gmail.com

Celebrating
International Microorganism Day

MICROSPHERE 2.0

**17th
September,
2022**

**An International Outreach
Program**




2:45 p.m. (5 min) **INTRODUCTORY REMARKS**
Dr. Shailly Anand
Deen Dayal Upadhyaya College, University of Delhi

2:50 p.m. **INAUGURATION OF IMILI-SAC**
Prof. Kenneth Timmis & Prof. Rup Lal

3:00 p.m. (40 min) **THEME: MICROBIOLOGY LITERACY INITIATIVE**
Societally-Important Microbiology in Education:
The International Microbiology Literacy Initiative
Prof. Kenneth Timmis
Professor, Tech. Univ. of Braunschweig,
Germany
Moderator: Dr. Shailly Anand & Dr. Princy Hira

3:40 p.m. (20 min) **THEME: MICROBIOME THAT MAKES YOU**
Role of Human Microbiome in Health and Diseases :
Children and Societal Perspective
Prof. Rup Lal
NASI Senior Scientist Platinum Jubilee Fellow,
The Energy and Resources Institute, New Delhi
Moderator: Dr. Gauri Garg Dhingra & Dr. Charu Tripathi

4:00 p.m. (25 min) **THEME: MICROBIOME THAT MAKES YOU**
We are Not Alone: Living with Microbes in Our Body
Prof. Z. Ceren Karahan
Chief, Ankara Uni. Ito-I Sina Investigation and
Application Hospital's Central Microbiology Laboratory
Moderator: Dr. Ankit Dua & Dr. Kiran Bala

4:25 p.m. (25 min) **THEME: MICROBES AND LIFE**
Far from the heart, far from the mind
Dr. Olga C. Nunes
Department of Chemical Engineering, University of Porto
Moderator: Dr. Roshan Kumar & Dr. Pushpika

4:50 p.m. (10 min) **THEME: DO YOU KNOW???**
Fun with Microbes
Dr. Javinder Kaur
Gargi College, University of Delhi
Moderator: Dr. Vivek Negi & Dr. Nishik Kumar Mahato

5:00 p.m. (15 min) **THEME: MICROBIOLOGY & THE SOCIETY**
Our Efforts Towards Microbial Literate Society
Dr. Princy Hira
Maitreyi College, University of Delhi
Moderator: Dr. Utkarsh Sood & Dr. Seema Makhija

5:15 p.m. (15 min) **THEME: MICROBIAL OUTBREAK**
Raising Awareness to Better Engage the Community
Against Viral Outbreaks
Dr. Gauri Garg Dhingra
Kirti Mal College, University of Delhi
Moderator: Dr. Jaya Malhotra &
Dr. Kavari Chakraborty

 **Get in touch**
microsphere2021@gmail.com

TEAM MICROSPHERE 2022

Celebrating
International Microorganism Day
MICROSPHERE

17th
September,
2022

An International Outreach
Program

5:30 p.m.
(15 min)

THEME: MICROBES AND SUSTAINABILITY

Antimicrobial resistance and sustainable development goals

Dr. Deepika Yadav

Shivaji College, University of Delhi

Moderator: Dr. Aashna Nigam & Dr. Anjali Saxena

5:45 p.m.
(20 min)

THEME: STUDENT SESSION

Microbes Around Us !

Dr. Shailly Anand & Dr. Renu Solanki

Devi Dayal Upadhyaya College, University of Delhi

Dr. Jaya Malhotra

Hansraj College, University of Delhi

Students:

Ankursh, Jaya, Ranjita, Priyanka, Anindita (DDUC)

Akhay, Aditya, Ishika, Yami, Kashish (HBC)

Moderators: Dr. Ravi Kumar Grewani



6:05 p.m.
(15 min)

THEME: STUDENT SESSION

Isolation of Bacterial DNA Using Simulation !

Prof. Seema Makhija

Acharya Narendra Dev College, University of Delhi

Student:

Vaibhav Thapliyal (ANOC)

Moderators: Ms. Swati Maurya & Dr. Sripoorna



6:20 p.m.
(20 min)

THEME: MICROBIOLOGY QUIZ

MICROQUIZ (For students only)

Prof. A. Archana & Dr. Nitin Chauhan

Dept of Microbiology, Swami Shradhdhanand College,
University of Delhi

Dr. Parminder Kaur

SGTB Khalsa College, University of Delhi

Moderators: Dr. Nirjara Singhvi & Dr. Jasvinder Kaur

6:40 p.m.
(15 min)

VALEDICTORY

CLOSING REMARKS & FEEDBACK FORM

Prof. Sukanya Lal & Dr. Charu Dogra Rawat

Ramjas College, University of Delhi, Delhi

Moderators: Dr. Jasvinder Kaur & Dr. Parminder Kaur



ORGANIZED

under the aegis of

International Microbiology Literacy Initiative -
South Asian Centre
(IMLI-SAC) at PhiXgen Pvt. Ltd.



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PG Dept. of Zoology (MU) &

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TEAM MICROSPHERE 2022

Microsphere 2.0- Celebration of Microorganism Day- 17th September 2022

Report on Role of Human Microbiome in Health and Diseases: Children and Societal Perspective

Prof. Rup Lal

NASI Senior Scientist Platinum Jubilee Fellow,
The Energy and Resources Institute, New Delhi

Prof Lal has given an insight into the unlimited World of Microbes and their dominance in our life. Their uniqueness needs to be understood for a better future for the coming generations. Our society needs to be aware of their many roles which the world has witnessed in the recent times. He emphasized on how our microbiome governs our systems and any deviation leads to a number of physiological changes and diseases. He also elaborated on the role of microbial literacy in understanding our own microbiome and thereby living a healthy lifestyle.

**EVENT: Microsphere: An International Outreach Program On Occasion Of
International Microorganism Day**

Date: 17 Sep 2022

Attendance

VARSHA

SHRUTI BARADIA

ANSHIKA

CHIRAG SONI

VIVEK KUMAR

SANIYA

DEV KAPOOR

ISHA BHARDWAJ

MOHIT SINGH

ANSHU KUMARI

ADITI JAIN

GUNGUN MAHESHWARI

BHAWNA GUPTA

JASPREET KAUR

MIMANSA

SHUBHANKAR

JAY SHARMA

ANUSHRIA PANDEY

NEERAJ KUMARI

VAISHALI VINAY

SINGH

RISHI AGARWAL

VRANDA TEOTIA

AARTI

DAANISH KAUL

AAKASH

RICHA KUMARI

TANISHA

ANUJ SHARMA
ANJALI
KHUSHI SINGH
VANSHITA SINGH
KANIKA YADAV
KASHISH TOMAR
AAYUSH DAHIYA
SARTHAK ANAND
DEEPANSHI GARG
SANJANA YADAV
SACHIN
PRAGTI VERMA
RICHA SINGH
DEEPAK BAIRWA
PRIYANKA CHAND



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