



HANSRAJ COLLEGE

University Of Delhi

NAAC Grade A++ with CGPA 3.71

2024-2025

Name of the Event: International Outreach Program – Microsphere 4.0

Title: An International Outreach Program on Microbial Awareness and Human Well-Being

Convenor: Dr. Mansi Verma

Co- Convenor: Dr. Beena Bhandari

Organised by: Hansraj College in association with phiXgen pvt. Ltd.

Date of the Event: 17th September 2024

Speaker: Prof. Rup Lal and Prof. Kenneth Timmis

Resource persons for DIY activity: Dr. Anita Thakur, Dr. Beena Bhandari, Dr. Mansi Verma

Organising Secretary: Dr. Utkarsh Sood (Kirori Mal College, DU) and Dr. Princy Hira (Maitreyi College, DU)

Participants: Faculty from Delhi University Social Centre School and AGDAV CP school and DAV school

Students of IX and X standard from Delhi University Social Centre School

Sponsors: INSCR and Hansraj College

Description of the event:

Hansraj College, University of Delhi, in association with phiXgen pvt. Ltd., INSA, FEMS, ISME, IUMS, INSCR and IMiLi organized an enlightening event on the topic Microbial Literacy on 17th August 2024. This outreach event was specially organized to make school students aware about the importance of microbes. Distinguished speakers for the day were Prof. Rup Lal and Prof. Kenneth Timmis. Dr. Mansi Verma was the Convenor for the seminar, with Dr. Beena Bhandari, as Co-Convenor, Dr. Utkarsh Sood and Dr. Princy Hira being Organising Secretaries. The event commenced with the traditional Saraswati Vandana,

followed by the felicitation of the esteemed guests in presence of faculties and students. The event started by an enlightening talk on Viksit Bharat given by Prof. Rup Lal, INSA senior scientist, ANDC, DU. Dr. Vandana K. Singh introduced Prof. Rup Lal. He told the students about its importance and also introduced them to the world of microbes by giving them a brief history. He projected the past, present and future of India in making its way towards Viksit Bharat Mission 2047. Prof. Lal also highlighted the role of younger generation for making this mission possible. Students were fascinated to learn about the dominance of microbes on our planet, constituting 16.9% of the biomass, whereas human beings account for merely 0.0001%. The usefulness of microbes in producing alcohol, medicine, and various enzymes was truly insightful. And students 'take home' message was to eat healthy to have healthy microbiota.

After the break, the students got to have hands on experience of DNA extraction by doing practical work in the laboratories. The students of Delhi University Social Centre School (DUSC) were filled with the eagerness of learning while doing this DIY activity. This was followed by a microbial quiz where the students teamed in pairs. The questions were met with enthusiasm where Dr. Utkarsh Sood (Assistant Prof., Kirori Mal College) and Dr. Princy Hira (Assistant Prof., Maitreyi College) made it more exciting with their brainstorming questions.

During the lunch break, guest faculty and students enjoyed their meal. Meanwhile, Hansraj College took the opportunity to sign a Memorandum of Understanding (MOU) with PhiXgen Pvt. Ltd., marking a significant collaboration.

After lunch break, Dr. Kaveri Chakrabarty introduced the guest speaker Prof. Kenneth Timmis, an acclaimed microbiologist, professor at the Institute of Microbiology, Technical University of Braunschweig, Germany. He set the stage for an engaging and informative discourse on an overlooked topic, Microbial Literacy. He is the visionary behind the International Microbiology Literacy Initiative (IMiLI), a program dedicated to enhancing microbial literacy in schools. Through IMiLI, Prof. Timmis aims to educate young students about the vital role of microbes, fostering a deeper understanding of microbiology from an early age.

Prof. Kenneth's presentation on the significance of microbes was highly enlightening. He emphasized the crucial role microbes play in our daily lives and how the COVID-19 pandemic brought microbiology to the forefront. He discussed the global impact of microbes, their modes of transmission, and their effectiveness. Prof. Kenneth believes that a deeper understanding of microbiology can greatly benefit humanity. To this end, he introduced his initiative, IMiLI, aimed at spreading knowledge about microbes at the school level. This initiative seeks to

educate young minds on the importance of microbes, fostering a better understanding of health, disease prevention, and environmental awareness. He expressed his admiration for India and its Viksit Bharat initiative. He praised the country's scientific and economic advancements, highlighting the significant rise in India's GDP. Prof. Kenneth was eager to engage with his audience, welcoming questions with great enthusiasm. Teachers, along with students, posed various questions, which he answered with keen interest and energy. He expressed his gratitude for the opportunity to present his initiatives and share his insights.

The event concluded with closing remarks from Dr. Beena Bhandari, who expressed her gratitude to the sponsors, Hansraj college, PhiXgen pvt. Ltd, Institute Innovation Council and IQAC team, for ensuring the smooth execution of the event. She also extended her thanks to the faculty, students, and volunteers, whose efforts made the event a success. The event wrapped up on a high note with a delightful high tea.

Brochure/Poster:



Department of Zoology, Hansraj College
under the aegis of
IQAC, Hansraj College
celebrates

International Microorganism Day

MICROSPHERE 4.0
An International Outreach Program
on
Microbial Awareness & Human Well-being

17 September 2024
9.30 am onwards

An initiative to promote microbial literacy & celebrating the diversity & wide applications of microbes

SPEAKERS

| | | |
|---|---|--|
|  <p>PROF. KENNETH TIMMIS Institute of Microbiology, Technical University, Braunschweig, Germany</p> |  <p>PROF. RUP LAL INSA Senior Scientist, Acharya Narendra Dev College University of Delhi</p> |  <p>PROF. YOGENDRA SINGH Delhi School of Public Health Institute of Eminence University of Delhi</p> |
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ORGANIZING COMMITTEE

| | | | |
|--|--|--|---|
|  <p>Chairperson(s) Prof. (Dr.) Rama Principal, Hansraj College University of Delhi</p> | <p>Prof. Rup Lal INSA Senior Scientist Acharya Narendra Dev College University of Delhi</p> | <p>Convenor Dr. Mansi Verma Hansraj College University of Delhi</p> |  <p>Co- Convenor & Teacher-in-Charge Dr. Beena Bhandari Hansraj College University of Delhi</p> |
| <p>Organizing Secretary Dr. Utkarsh Sood (Kirori Mal College, DU) Dr. Princy Hira (Maitreyi College, DU)</p> | <p>IQAC Director Ms. Alka Kacker</p> | <p>Faculty of Department of Zoology Hansraj College</p> | |

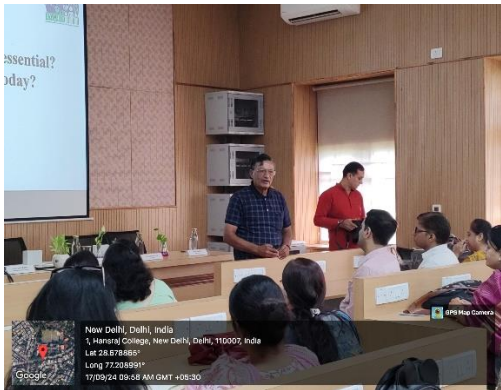
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-INAUGURATION CEREMONY



-PRESENTATION BY PROF.KENNETH TIMMIS



-PRESENTATION BY PROF. RUP LAL



-M.O.U. SIGNING WITH PHIXGEN PVT. LTD.



-FELICITATION OF GUEST FACULTY AND PRIZE DISTRIBUTION TO STUDENTS



-DIY ACTIVITY- GENOMIC DNA ISOLATION

Resource Persons: Dr. Anita Thakur, Dr. Beena Bhandari, Dr. Mansi Verma



-QUIZ COMPETITION



-LUNCH BREAK



New Delhi, Delhi, India
 1, Hansraj College, New Delhi, Delhi, 110007, India
 Lat 28.678991°
 Long 77.209077°
 17/09/24 03:26 PM GMT +05:30

-FACULTY AND STUDENTS

LIST OF PARTICIPANTS

Faculty

| S.No. | Faculty's Name | Education Institution | Contact No. | Signature |
|-------|----------------|-------------------------|-------------|--------------------|
| 1 | MS. JYOTI KANA | A.G.D.A.V. C. P. School | 8010723680 | <i>[Signature]</i> |
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| 3 | MS. CHHABI | AG DAV CP School | 9953168998 | <i>[Signature]</i> |
| 4 | BHATNAGAR | Model Town | | |
| 5 | | | | |
| 6 | MS. BEHINT | AGDAY CP School | 9953910811 | <i>[Signature]</i> |
| 7 | KAUR | | | |
| 8 | | | | |
| 9 | Mrs. RUCHI | DAV PUBLIC SCHOOL | 9999023294 | <i>[Signature]</i> |
| 10 | SHARMA | SRESHTHA VIHAR | | |
| 11 | | DELHI | | |
| 12 | MR. ARVIND | | | |
| 13 | GUPTA | | | |
| 14 | Mrs. Vibha | D.V.S.C. School | 9818715943 | <i>[Signature]</i> |
| 15 | Sharma | | | |
| 16 | Priyanshi | D.V.S.C. School | 8766234661 | <i>[Signature]</i> |
| 17 | MS. BHABHA | | | |
| 18 | BHATNAGAR | A.G. DAV CP School | 9953168998 | <i>[Signature]</i> |
| 19 | | Model Town III | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |

Students


| No. | Student's Name | CLASS | Educator Institute | Contact No. | Signature |
|-----|-------------------|-------|--------------------|-------------|-----------|
| 1 | GARIMA ✓ | X | DVSC | 9972979705 | |
| 2 | JYOTI ✓ | X | DVSC | 8920846998 | |
| 3 | KANAK ✓ | X | DVSC | 9811692138 | |
| 4 | KENKA A | X | | | |
| 5 | KHUSH SINGH A | X | | | |
| 6 | Manisha ✓ | X | DVSC | 8882036763 | |
| 7 | MERRY SUDHAKAR ✓ | X | DVSC | 9667605323 | |
| 8 | PALAK ✓ | X | DVSC | 8200138085 | |
| 9 | PRIYA ✓ | X | DVSC | 9310507929 | |
| 10 | RACHNA KUMARI ✓ | X | DVSC | 8826752968 | |
| 11 | SHIKHI ✓ | X | DVSC | 9625117536 | |
| 12 | SIMRAN ✓ | X | DVSC | 7066749280 | |
| 13 | ARTAN KUMAR ✓ | X | DVSC | 7503888654 | |
| 14 | DAKSH HANDA ✓ | X | DVSC | 9205759805 | |
| 15 | HARSHI ✓ | X | DVSC | 7678506353 | |
| 16 | HARSHI ✓ | X | DVSC | 7065760060 | |
| 17 | HIMANSHU MEHRA ✓ | X | DVSC | 8882855807 | |
| 18 | KARTIK ✓ | X | DVSC | 8882339263 | |
| 19 | LAKSHAY MALIK ✓ | X | DVSC | 9871682668 | |
| 20 | MAYANK A | X | | | |
| 21 | RAJAT NETAN RAJ ✓ | X | DVSC | 9971867757 | |
| 22 | SACHIN ✓ | X | DVSC | 8860979837 | |
| 23 | DIKSHA ✓ | IX | DVSC | 9211228764 | |
| 24 | DIYA DHIDAN A | IX | | | |
| 25 | KANKA ✓ | IX | DVSC | 9540838652 | |
| 26 | KHUSHBU KUMARI ✓ | IX | DVSC | 8826752968 | |
| 27 | KALPANA ✓ | IX | DVSC | 9971559132 | |
| 28 | NANDANI ✓ | IX | DVSC | 708054961 | |
| 29 | PIRU A | IX | | | |
| 30 | NANCY CHAUDHAN ✓ | IX | DVSC | 8810501959 | |
| 31 | NANDANI | IX | | | |
| 32 | SUHAM ✓ | IX | DVSC | 93025224 | |
| 33 | SINDHU ✓ | IX | DVSC | 9899945057 | |
| 34 | SONIA ✓ | IX | DVSC | 9971022237 | |

| | | | | | |
|----|--------------------|----|------|------------|----------|
| 36 | SRIKSHI | IX | - | | |
| 36 | SUPRIYA ✓ | IX | DUSC | 9910514145 | Supriya |
| | ADHISHIK KUMAR | IX | - | | |
| 37 | MANDAL | IX | - | | |
| 38 | AJAY ✓ | IX | DUSC | 7838312178 | Ajay |
| 39 | URMAN | IX | - | | |
| 40 | AYUSH | IX | DUSC | 954050764 | Ayush |
| 41 | CHITRAKSH | IX | - | | |
| 42 | DANIS AHMED ✓ | IX | DUSC | 9891693751 | Danis |
| 43 | HARDIK ✓ | IX | DUSC | 9278686988 | Hardik |
| 44 | ISHANT ✓ | IX | DUSC | 9811692138 | Ishant |
| 45 | LAKSHY SINGH ✓ | IX | DUSC | 9717248488 | Lakshy |
| 46 | KABIR DHAMMADEEP ✓ | IX | DUSC | 770952414 | Kabir |
| 47 | KANAV KUMAR | IX | - | | |
| 48 | KESAR ✓ | IX | DUSC | 995309094 | Kesar |
| 48 | LUCKY SINGH ✓ | IX | DUSC | 0401375782 | Lucky |
| 50 | MANISH | IX | - | | |
| 51 | MEYANAK ✓ | IX | DUSC | 7053968495 | Meyanak |
| | MAYANK | IX | - | | |
| 52 | MAADHANPURI | IX | - | | |
| 53 | MUHAMMAD AMAN ✓ | IX | DUSC | 9811167996 | Aman |
| 54 | MUHAMMAD SAAD ✓ | IX | DUSC | 7011228302 | Saad |
| 55 | NATIK ✓ | IX | DUSC | 8744853297 | Natik |
| 56 | PRANAV ✓ | IX | DUSC | 9711043851 | Pranav |
| 57 | PRINCE ✓ | IX | DUSC | 9811235732 | Prince |
| 58 | REHMAN ✓ | IX | DUSC | 8130257269 | Rehman |
| 59 | RUDRA KUMAR | IX | DUSC | 8750160917 | Rudra |
| 60 | SHANU KASHYAP ✓ | IX | DUSC | 9953519719 | Shanu |
| 61 | SHUBHAM | IX | - | | |
| 62 | TANSHIQ | IX | - | | |
| 63 | VADHAV | IX | - | | |
| 64 | VADHAV SINGH | IX | - | | |
| 65 | VANSH VERMA | IX | - | | |
| 66 | VIVEK PANDEY ✓ | IX | DUSC | 956068140 | Vivek |
| 67 | YATHARTH KUMAR | IX | DUSC | 9654649411 | Yatharth |
| | Rudra Kumar | IX | DUSC | 9811356599 | Rudra |
| | Shubham | IX | DUSC | 8750160917 | Shubham |

MoU


MEMORANDUM OF UNDERSTANDING

by and between



हंसराज कॉलेज
Hansraj College
University of Delhi
New Delhi-110007

And

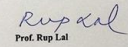


PhiXgen Pvt. Ltd.
(FLAT NO. 101, Sector 47, GH-11 ATLANTIS CGHS LTD.
GURUGRAM Gurgaon HR IN 122001)

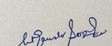
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Force majeure: Neither party shall be held responsible for non-fulfilment of their respective obligations under this MOU due to the exigency of one or more of the force majeure events such as but not limited to Acts of God, War, Flood, Earthquakes, Strike, Lockouts/Lockdowns, Epidemics, Riots, Civil Commotion etc. provided on such occurrence and cessation thereof, the other party immediately after, but not later than one month of such occurrence and/or cessation, shall restart its obligation under this MoU. The period between the occurrence and cessation of such event will be excluded while calculating the period during which the parties have to perform the obligations under this MOU. If the force majeure conditions continue beyond six months, the parties shall then mutually decide about the future course of action.

For PhiXGen Pvt. Ltd.




Prof. Rup Lal
Director (Honorary)

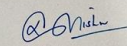


Witness 1

For Hansraj College



Prof. (Dr.) Rama
Principal



Witness 2

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