

**DEPARTMENT OF MICROBIOLOGY**

**REPORT ON GUEST LECTURE**

**Title:** Guest Lecture on “Exploring the Microbes of Saline Environments”

**Date:** 10<sup>th</sup> May 2025

**Venue:** Gallery Room, 6<sup>th</sup> Floor

**Participants:** II Year BSc students

**Resource Persons:** Dr. Vivek Upasani, Scientist, Genexplore Diagnostics Pvt. Ltd, Ahmedabad, Gujarat.

**No. of Participants:** 59

**Objective:**

- The primary objective of a guest lecture is to share knowledge, expertise, or insights on a topic.
- To provide valuable information to the audience, enhancing their understanding of the topic.
- To provide networking opportunities for students. Interacting with professionals in various fields can help students build connections that may be valuable for internships, job opportunities, or further education.
- To introduce students to the diverse microbial communities thriving in saline and hypersaline environments.
- To inspire research interest among students in extremophilic microbiology and environmental microbiome studies.

On 30<sup>th</sup> April 2024, Department of Microbiology, MSRCASC hosted a guest lecture on “Exploring the Microbes of Saline Environments” delivered by Dr. Vivek Upasani, Scientist, Genexplore Diagnostics Pvt. Ltd, Ahmedabad, Gujarat, for II-year BSc students. Fifty-nine students from II-year B. Sc., participated in the event. The lecture aimed to





introduce students to the diverse microbial communities thriving in saline and hypersaline environments and to inspire research interest among them in extremophilic microbiology and environmental microbiome studies.

The lecture commenced with a warm

welcome and followed by the formal introduction of the speaker. Dr. Vivek Upasani, Speaker opened the session by contextualizing the importance of studying extreme habitats and their microbial inhabitants, focusing particularly on saline environments.

Speaker involved students in the talk by providing an overview of saline habitats and their global distribution. The lecture emphasized the unique survival strategies of halophiles, including osmoadaptation, salt-in and compatible solute strategies, and unique membrane compositions. The importance of these microbes in biogeochemical cycles and their potential



in biotechnology—such as the production of enzymes, pigments, and bioactive compounds—was also discussed.

Interactive segments allowed students to ask questions and explore the potential of saline environment microbes in drug discovery and sustainable industry

practices. The lecture concluded with insights into current research trends and methodologies for studying extremophiles, such as metagenomics and culture-independent approaches.

### **Outcome:**

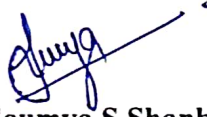
The guest lecture on “Exploring the Microbes of Saline Environments” was highly informative and thought-provoking. It broadened the students’ perspective on microbial life in extreme habitats and introduced them to potential career and research paths in microbial

biotechnology. The department expresses sincere gratitude to Dr. Vivek Upasani for sharing their expertise and inspiring the next generation of microbiologists. This guest lecture provided students the valuable knowledge on a lesser-known yet impactful area of microbiology. It not only enhanced their understanding of extremophiles but also sparked curiosity and potential research interests in environmental and applied microbiology.

**Coordinators:**

Dr. Vidya Jagadeeshan

Dr. Tejaswini H K



**Mrs. Soumya S Shanbhag**  
Assistant Professor and Head  
UG Department of Microbiology.



**Principal**  
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**DEPARTMENT OF MICROBIOLOGY**  
**GUEST LECTURE ON "EXPLORING THE MICROBES OF SALINE ENVIRONMENT"**  
**10<sup>TH</sup> MAY 2025**  
**ATTENDANCE**

| SL. NO. | NAME OF THE STUDENT | REGISTRATION NO. | SIGNATURE              |
|---------|---------------------|------------------|------------------------|
| 1.      | A. Abhishek         | U18EV23S0186     | <u>Abhishek</u>        |
| 2.      | Hemanth G M         | U18EV23S0284     | <u>Hemanth</u>         |
| 3.      | Alfin B. George     | U18EV23S0005     | <u>Alfin</u>           |
| 4.      | Beenish Javied      | U18EV23S0376     | <u>BJ</u>              |
| 5.      | Seerat Aziz         | U18EV23S0124     | <u>Seerat</u>          |
| 6.      | Afiya Fatima        | U18EV23S0116     | <u>Afiya</u>           |
| 7.      | Hiba Zahreen        | U18EV23S0156     | <u>Hiba</u>            |
| 8.      | Anitha              | U18EV23S0166     | <u>Anitha</u>          |
| 9.      | Saloni Bhandari     | U18EV23S0290     | <u>Saloni</u>          |
| 10.     | Agnishwar Das       | U18EV23S0109     | <u>Agnishwar</u>       |
| 11.     | Arya K              | U18EV23S0036     | <u>Arya</u>            |
| 12.     | Manasa S Manasa S   | U18EV23S0135     | <u>Manasa</u>          |
| 13.     | Aishwarya KS        | U18EV23S0110     | <u>Aishwarya</u>       |
| 14.     | Molisa P            | U18EV23S0389     | <u>Molisa</u>          |
| 15.     | Tannu Kumari        | U18EV23S0393     | <u>Tannu Kumari</u>    |
| 16.     | Abhigyan Baruah     | U18EV23S0165     | <u>Abhigyan</u>        |
| 17.     | Amal Krishna C      | U18EV23S0158     | <u>Amal</u>            |
| 18.     | Keerthana IS        | U18EV23S0029     | <u>Keerthana</u>       |
| 19.     | Karthick S          | U18EV23S0016     | <u>Karthick</u>        |
| 20.     | Navyatha Shree      | U18EV23S0004     | <u>Navyatha</u>        |
| 21.     | Srivani             | U18EV23S0395     | <u>Srivani</u>         |
| 22.     | Koushani Biswas     | U18EV23S0018     | <u>Koushani</u>        |
| 23.     | Amruthavarshini S   | U18EV23S0101     | <u>Amruthavarshini</u> |
| 24.     | Amulya JB           | U18EV23S0170     | <u>Amulya</u>          |
| 25.     | Harshitha R         | U18EV23S0018     | <u>Harshitha</u>       |
| 26.     | Megholina Saha      | U18EV23S0007     | <u>Megholina</u>       |
| 27.     | Keerthi RP          | U18EV23S0041     | <u>Keerthi</u>         |
| 28.     | Keerthi SV          | U18EV23S0040     | <u>Keerthi</u>         |
| 29.     | Anusha MS           | U18EV23S0126     | <u>Anusha</u>          |

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10/5/25



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|-----|---------------------------------|--------------|------------------|
| 30. | Md. Sahil Hasrat                | U18EV23S0125 | Sahil            |
| 31. | Arkaprabha Deb                  | U18EV23S0131 | Arkaprabha Deb.  |
| 32. | Pavithra R                      | U18EV23S0383 | Pavithra         |
| 33. | Anagha Pravin                   | U18EV23S0187 | Anagha           |
| 34. | H. M. Poornachandra             | U18EV23S0079 | H.M. Poorna      |
| 35. | <del>Keerthi S.V.</del> KETHANA | U18EV23S0023 | Keerthi          |
| 36. | Keerthi. R. P                   | U18EV23S0041 | Keerthi          |
| 37. | Anusha M. S                     | U18EV23S0126 | Anusha           |
| 38. | Amulya J. B                     | U18EV23S0170 | Amulya           |
| 39. | Amrutha Varshini S              | U18EV23S0101 | amrutha Var      |
| 40. | Harshitha R                     | U18EV23S0018 | Harshitha        |
| 41. | Megha A                         | U18EV23S0033 | Megha            |
| 42. | Laxmi Sharma                    | U18EV23S0032 | Laxmi            |
| 43. | Saharsh Vrat                    | U18EV23S0388 | Saharsh          |
| 44. | Saloni Bhandari                 | U18EV23S0390 | Saloni           |
| 45. | Agnishwar Das                   | U18EV23S0109 | Agnishwar        |
| 46. | Nisha Shiva Shankar             | U18EV23S0022 | Nisha            |
| 47. | K. P. Pavani                    | U18EV23S0138 | Pavani           |
| 48. | Mahathvini G. A                 | U18EV23S0031 | Mahathvini G. A. |
| 49. | Tanushree R                     | U18EV23S0087 | Tanushree R.     |
| 50. | Vaishnavi                       | U18EV23S0085 | Vaishnavi        |
| 51. | Aishwarya S. V                  | U18EV23S0077 | Aishwarya S.V    |
| 52. | Shriya Gejjehalli               | U18EV23S0084 | Shriya           |
| 53. | Smakshi Das                     | U18EV23S0059 | Smakshi Das      |
| 54. | Pallavi                         | U18EV23S0120 | Pallavi          |
| 55. | Sanjana L                       | U18EV23S0151 | Sanjana L        |
| 56. | Goutham Kumar Gupta             | U18EV23S0083 | Goutham K. Gupta |
| 57. | Bhanushree H. R                 | U18EV23S0088 | Bhanushree H. R  |
| 58. | Akka Mahadevi D                 | U18EV23S0134 | modhu            |
| 59. | Sufiyan Ahmed Khan              | U18EV23S0058 | Sufiyan          |

*Thyaga*  
10/5/25