



Goa University

Discipline of Marine Microbiology, School of Earth, Ocean and Atmospheric Sciences

Report on Celebrating Pioneers in Innovation and Science

Har Gobind Khorana: the Chemist who Unravelled the Genetic Code

1. Title of the Event/Activity/program	Celebrating Pioneers in Innovation and Science Har Gobind Khorana: the Chemist who Unravelled the Genetic Code
2. Date and Time	9 th January 2025, 4 pm
3. Mode of conduct (Physical/Online)	Physical
4. School/ Directorate/ Section	Discipline of Marine Microbiology, School of Earth, Ocean and Atmospheric Sciences
5. Collaborating Agency/School/Directorate	--
6. Detail of the Resource Person (Brief biodata)	Dr. Rakhee Sinai Khandeparker (Brief biodata attached as Annexure A)
7. Number of Faculty attended/participated	05
8. Number of Student attended / participated	M.Sc. Marine Micro students: 22
9. No. of external students/faculty/other participants	M.Sc. Botany student: 01 Research scholars: 02 External faculty: 01

10. The objectives of the Program/activity/event	<p>The objective of the Programme was to inculcate in the students an awareness and appreciation of the Indian scientists from the mid-1900s who overcame many obstacles in their path, forged ahead and contributed to science. This was the third activity in this series 'Celebrating Pioneers in Innovation and Science' and celebrated the life and achievements of Har Gobind Khorana, also known as the 'Chemist who Unravelled the Genetic Code'.</p>
11. Description of the Program/activity/event	<p>The programme was organized by the Discipline of Marine Microbiology, SEOAS. It consisted of 2 parts. First, a quiz about the life and times of Har Gobind Khorana and Nobel laureates linked to India, for the M.Sc. Marine Microbiology Part I students, conducted by Dr. Priya M. D'Costa, the Programme Co-ordinator, on 7th January 2025. Second, an invited talk on the topic "Xylanases from Marine Bacteria: Bridging Marine Biology and Molecular Biology to Unlock Their Potential", by Dr. Rakhee Sinai Khandeparkar, Principal Scientist at the CSIR-National Institute of Oceanography, was held on 9th January 2025, the birth anniversary of Har Gobind Khorana. After the talk, Dr. Rakhee Khandeparkar distributed prizes to the first, second and third place winners of the quiz.</p>
12. Benefit/Key outcomes of the Program/activity/event	<p>The students gained awareness about the conditions in which Indian scientists conducted their research and progressed in their scientific careers, in the mid-1900s. They also learned about the contributions of Indian Nobel laureates to science. The life and legacy of Dr. Har Gobind Khorana served as a source of inspiration to our students.</p>
13. Enclosures with report	<p>Brochure, Notice, Geo-tag photos, Attendance of students/faculty/external participants, Bio Data of resource person (if applicable), Any other information.</p>

Signature: PAD
Name of coordinator: Dr. Priya M. D'Costa
Designation: Assistant Professor, Marine Microbiology

Signature: S.C. Ghadi
Dean Senior Prof. S.C. Ghadi
Seal of the School





**Discipline of Marine Microbiology
School of Earth, Ocean and Atmospheric Sciences
Goa University**

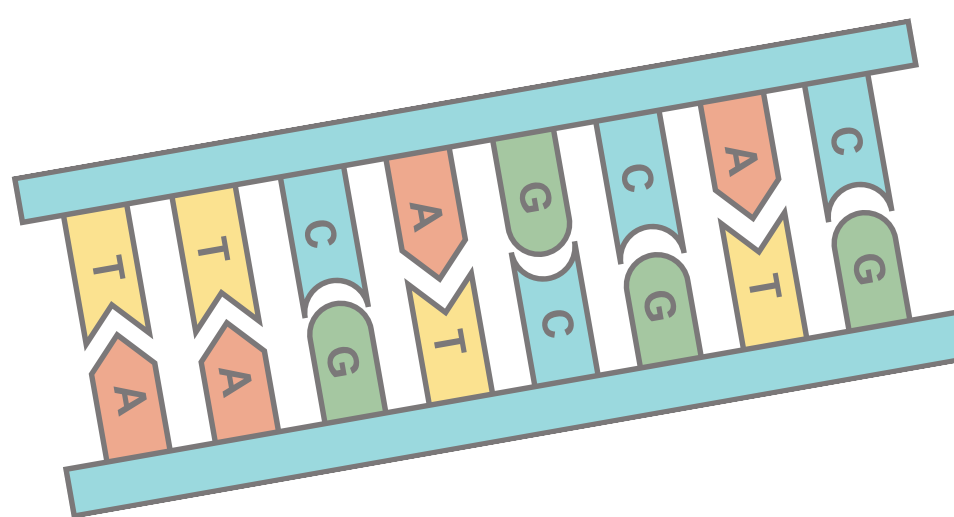
as part of the **Series**

CELEBRATING PIONEERS IN INNOVATION AND SCIENCE

is commemorating the life and achievements of



**HAR GOBIND KHORANA:
THE CHEMIST WHO UNRAVELLED THE
GENETIC CODE**



with a **Quiz**

and an **Invited Talk**



**Xylanases from Marine Bacteria:
Bridging Marine Biology and Molecular
Biology to Unlock Their Potential**

**Eminent Speaker:
Dr. Rakhee Sinai Khandeparker,
Principal Scientist, CSIR-NIO**

**9th January 2025, 4 pm.
Venue: VRPP Hall, Block D.**

Programme Co-ordinator: Dr. Priya M. D'Costa



Fig. 1. Dr. Priya D'Costa conducting the Quiz competition.



Fig. 2. Dr. Rakhee Khandeparker delivering her talk.



Fig. 3. Dr. Rakhee Khandparker distributing the prizes to the 1st place winners of the quiz competition (Shivam Kadam and Vasant Govekar).



Fig. 4. Dr. Varada S. Damare, the Programme Director – Marine Microbiology, presenting a potted plant to the resource person.



Fig. 5. Group photograph at the end of the talk.

Attendance Sheet

Invited talk

Xylanases from Marine Bacteria: Bridging Marine Biology and Molecular Biology to Unlock Their Potential (Resource person: Dr. Rakhee Sinai Khandeparker)

as part of the Series


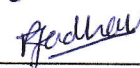


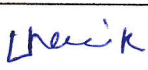
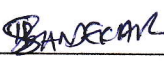
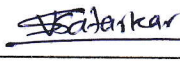
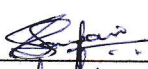

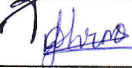
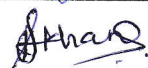
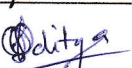

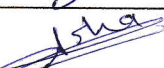
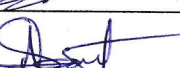
Celebrating Pioneers in Innovation and Science

Har Gobind Khorana: the Chemist who Unravelled the Genetic Code

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9th January 2025 , 4 p.m. onwards

Venue : VRPP Hall, Block D

Sr. No.	Name of the Faculty/ Research Scholar/ Students	Programme	Signature
1	Yatishya Y. Gaude	MSc. Marine Microbiology	
2	Ravine R. Jadhav	"	
3	Shruti S. Korgoankar	"	
4	Samruddhi Naik	"	
5	Lakshada Naik	"	
6	Tejal Bandekar	"	
7	Sanisha V. Satarkar	Marine Microbiology	
8	Susanna Sampayo	Msc. Marine Microbiology	
9	Valluno Fernandez	Botany Part II	
10	Diksha I. Sharma	MSc. Marine Microbiology Part I	
11	Sana K. Khan	"	
12	Aditya Raj Shivattan	"	
13	Dweta R. Kanekar	"	
14	Lesha R. Lotlikar	"	
15	Ashutosh Sawant	"	

Attendance Sheet

Invited talk

Xylanases from Marine Bacteria: Bridging Marine Biology and Molecular Biology to Unlock Their Potential (Resource person: Dr. Rakhee Sinai Khandeparker)

as part of the Series


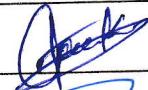
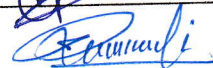
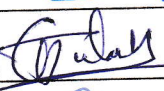



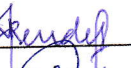
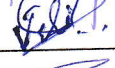

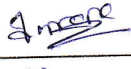


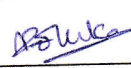
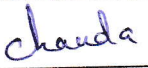
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16	Shivam Kacham	MSc Marine Micro Part-I	
17	Vasant Gonetkar	MSc Marine Micro Part-II	
18	John Fernandes	"	
19	Chetan D. Tulaskar	MSc Marine Micro Part I	
20	RUKSAR ALAM	M.Sc Marine Micro Part 2	
21	Agnelo Silveira	MSc Marine Micro Part-2	
22	Franzil Fernandez	"	
23	Natly Fernandes	"	
24	Varishmani Teli	"	
25	Sugat Mandrekar	"	
26	Imrana Shaikh	Marine Micro Ph.D	
27	Varada S. Damare	Marine Microbiol.	
28	PRIYA M. D'GOSTA	" "	
29	Nikita Lotlikar	Marine microbiology	
30	Chanda Berde	" "	

Appendix A: Brief Biodata of Dr. Rakhee Khandeparker (the resource person)

Dr. Rakhee Khandeparker is a Principal Scientist in the Biological Oceanography Division at the National Institute of Oceanography (NIO), Goa, India. She completed her PhD in Microbiology from Goa University in 2005 and joined CSIR-National Institute of Oceanography (NIO) as a scientist in June 2008. Her research focuses on marine biology and oceanography, with significant contributions to marine microbiology and biotechnology. She has made significant advancements in utilizing marine bacteria to develop environmentally friendly solutions in various sectors. In the pulp and paper industry, her work has contributed to more sustainable processes by employing enzymes from extremophilic microbes to improve efficiency and reduce chemical usage. Additionally, her research has played a crucial role in the development of bioplastics, leveraging unique properties of marine bacteria to create biodegradable alternatives to conventional plastics. She holds three patents, each highlighting the innovative applications of marine bacteria in these industries.