

**SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS),  
SION WEST, MUMBAI - 400 022**

**DEPARTMENT OF BIOTECHNOLOGY AND DEPARTMENT OF BIOCHEMISTRY**

**A. Title of the Seminar/Workshop/Conferences:** Cryo-EM structure of the ancient eukaryotic ribosome from the human parasite Giardia Lamblia

**B. Background:** A lot of research is taking place on ribosomes, its evolution and its structure. The speaker is a PhD student under Nobel Laureate Prof. Ada Yonath, Department of Chemical and Structural Biology, Weizmann Institute of Science, Israel. Her work focuses on identifying the structure of ribosomes of an ancient parasite giardia lamblia and what similarities as well as differences it shows with respect to human ribosomes and how it will be helpful in creating a species-specific drug/antibiotic which will be sensitive to it.

**C. Aims/Objectives:** The lecture was intended to acquaint the audience with details of Cryo-EM structure of the ribosomal subunits and its evolution over ages. The software, equipment required, overall principle and a brief protocol of the same was explained.

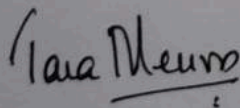
**D. Location:** Mini-auditorium, SIES College of Arts, Science and Commerce.

**E. Target audience/participants with expected number:** UG and PG students from Biotechnology and Biochemistry. About 87 students actively participated.

**F. Details of Sessions:** The session was held on 22nd October 2022, from 11am to 12pm.

**G. Session and names of Resource Persons:** Ms. Disha Gajanan Hiregange, PhD student under Nobel Laureate Prof. Ada Yonath, Department of Chemical and Structural Biology, Weizmann Institute of Science, Israel.

**H. Expected outcome:** The feedback of participants stated that they found the session to be very helpful and informative.



**Dr. Tara Menon**  
**Co-ordinator, Department of Biotechnology**

**Date: 02-11-22**

# Annexure 1:

## Details of Resource person:

Ms. Disha Gajanan Hiregange completed her Bachelors in Biotechnology and Biochemistry here at SIES College of Science, Arts, and Commerce in 2016 followed by Master's in Biology at Tata Institute of Fundamental Research in the year 2019. She is currently pursuing Ph.D. in Chemistry at the Weizmann Institute of Science in Israel, under the guidance of Nobel Laureate Prof. Ada Yonath. Her research interests include Structural Biology, Molecular Biology and Microbiology. She has many paper publications to her credit such as Cryo-EM structure of the ancient eukaryotic ribosome from the human parasite Giardia lamblia, Mutations in RPS19 may affect ribosome function and biogenesis in Diamond Blackfan anaemia, Genome instability drives epistatic adaptation in the human pathogen Leishmania to name a few. In addition to this, she has given numerous poster presentations and has also attended various conferences, the most recent one being the Ribosome Structure and Function meeting 2022 held in France. She has also achieved the Junior Research Scholar Fellowship (DAE) along with a plethora of other academic achievements.

## Annexure 2: Attendance Record

SIES COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS)  
SION (WEST)  
DEPARTMENT OF BIOTECHNOLOGY  
ATTENDANCE SHEET

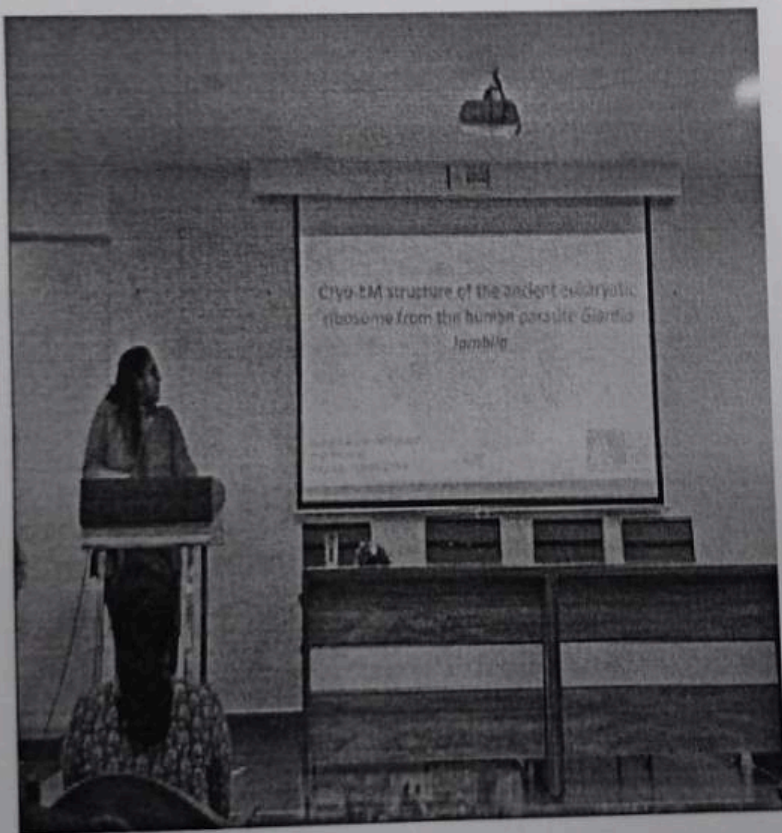
TITLE: Cryo-EM Structure of the ancient eukaryotic ribosome from the human parasite Giardia lamblia  
VENUE: Mini-aud, SIES College (Sion W)  
TIME: 11:00am-12:00 pm  
SPEAKER: Disha Gajanan Hiregange.  
ORGANISED BY: Dept of Biotechnology & Biochemistry.

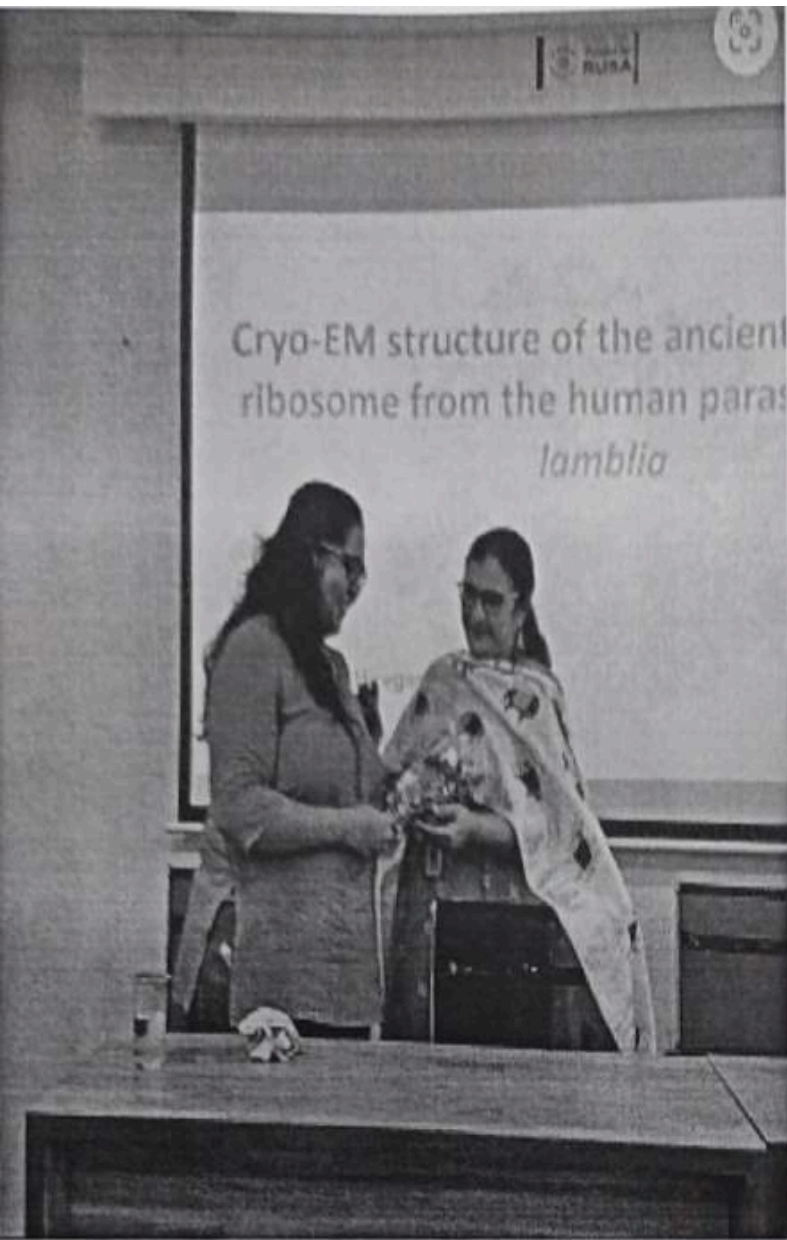
Sr. No.	Roll No.	College Name/Department	Name	Signature
1	FRT222307	Biotech	Pranjana Neth	[Signature]
2	FRT222308	"	Suyali Jais	[Signature]
3	FRT222309	"	Siddhi Patel	[Signature]
4	FRT222310	"	Mahat Parmar	[Signature]
5	FRT222311	"	Kajal Yadao	[Signature]
6	FRT222312	"	Nikita Mishra	[Signature]
7	FRT222313	"	Srujan Golla	[Signature]
8	FRT222314	Biotech	Chinmiti Mishra	[Signature]
9	FRT222315	"	Anupama R	[Signature]
10	FRT222316	"	Yashraj Nimarkar	[Signature]
11	FRT222317	"	Krushal Poolary	[Signature]
12	FRT222318	Biotech	Vinaykumar	[Signature]
13	FRT222319	Biotechnology	Vinay Phalke	[Signature]
14	FRT222320	Biotechnology	Ashvi Chaudhary	[Signature]
15	FRT222321	BIOCHEMISTRY	Ashvi Chaudhary	[Signature]
16	FRT222322	BIOCHEMISTRY	ANRITA SURESH	[Signature]
17	FRT222323	Biotechnology	Charmis Shankar	[Signature]
18	FRT222324	Biotech	[Signature]	[Signature]
19	FRT222325	BIOTECH	ANU NEANDHILAKSHI	[Signature]

20	FRT222326	Biotech	Manish Jethava	[Signature]
21	FRT222327	Biotechnology	Vandana Kumbhar	[Signature]
22	FRT222328	Biotechnology	Shriya Kumbhar	[Signature]
23	FRT222329	Biotechnology	Pratibha Patil	[Signature]
24	FRT222330	Biotechnology	Thyagaraj	[Signature]
25	FRT222331	Biotechnology	Trisha Spiker	[Signature]
26	FRT222332	Biotechnology	Ashvi Chaudhary	[Signature]
27	MSc-I	Biochemistry	Aditi Kulkarni	[Signature]
28	MSc-II	Biotechnology	Rishabh Kulkarni	[Signature]
29	SRT222333	Biotechnology	Parvathi D. Tager	[Signature]
30	DVT222334	Biochemistry	Nandini Kulkarni	[Signature]
31	MSc-I	Biotechnology	Jyoti Kulkarni	[Signature]
32	MSc-I	Biotechnology	Anant Kulkarni	[Signature]
33	MSc-II	Biotechnology	Omkar K.	[Signature]
34	MSc-II	Biochemistry	Anjali Kulkarni	[Signature]
35	MSc-I	Biochemistry	Tanvi Kulkarni	[Signature]
36	MSc-II	Biochemistry	Rhavana Kulkarni	[Signature]
37	MSc-I	Biotechnology	Nimisha Kulkarni	[Signature]
38	MSc-II	Biotechnology	Zaha Hublikar	[Signature]
39	MSc-II	Biochemistry	Ajaykumar Yadao	[Signature]
40	MSc-II	Biochemistry	Yash Salastekar	[Signature]
41	MSc-II	Biochemistry	Manjira Bhosale	[Signature]
42	MSc-I	Biochemistry	Vinaykumar	[Signature]
43	MSc-I	Biochemistry	Zoya Bhosale	[Signature]
44	MSc-I	Biochemistry	Shriya Anand	[Signature]
45	MSc-I	Biochemistry	Anthi Marathe	[Signature]
46	TYBSc	Biotechnology	Jyoti Chaudhary	[Signature]
47	TYBSc BT	Biotechnology	Manish Patel	[Signature]
48	BT222336	Biotechnology	Gauri Tager	[Signature]
49	BT222337	Biotechnology	Divya Zope	[Signature]

50	TR1222000	TYBC (Biosci)	Tisha Pattison	India
51	TR1222000	TYBC (Biosci)	Daksha Lakshmi	India
52	TR1222000	TYBC (Biosci)	Shani Mehta	India
53	TR1222000	TYBC (BT)	Shree Mehta	India
54	TR1222000	TYBC (BT)	Ayaz Mahomed Farooq	India
55	TR1222000	TYBC (BT)	Vinayak Mahalingam	India
56	TR1222000	TYBC (BT)	Vishal Ghoshal	India
57	TR1222000	TYBC (BT)	Abhinav Chandra Kumar	India
58	TR1222000	TYBC (BT)	Ziyang Chen	China
59	TR1222000	TYBC (BT)	Srinivasan Aravamudan	India
60	TR1222000	TYBC (BT)	Alex Lee	USA
61	TR1222000	TYBC (BT)	Naba Ghosh	India
62	TR1222000	TYBC (BT)	Manika Ghosh	India
63	TR1222000	TYBC (BT)	Apurva Jain	India
64	TR1222000	TYBC (BT)	Ashish Jain	India
65	TR1222000	TYBC (BT)	Vaidika Singh	India
66	TR1222000	TYBC (BT)	Manisha Singh	India
67	TR1222000	TYBC (BT)	Dhruv Kumar	India
68	TR1222000	TYBC (BT)	Anshika Prasad	India
69	TR1222000	TYBC (BT)	Divyanshi Singh	India
70	TR1222000	TYBC (BT)	Satish Kumar	India
71	TR1222000	TYBC (BT)	Kavya Singh	India
72	TR1222000	TYBC (BT)	Yashika Singh	India
73	TR1222000	MSI - I (BT)	Manish Kumar	India
74	TR1222000	MSI - I (BT)	Aditya Kumar	India
75	TR1222000	MSI - I (BT)	Pratik Kumar	India
76	TR1222000	MSI - I (BT)	Shikhar Kumar	India
77	TR1222000	MSI - I (BT)	Rishabh Kumar	India
78	TR1222000	MSI - I (BT)	Yash Kumar	India
79	TR1222000	MSI - I (BT)	Trishita Singh	India
80	TR1222000	MSI - I (BT)	Pooja Mehta	India

### Annexure 3: Photographs of Seminar/Workshop







*Tara Menon*

**Dr. Tara Menon**  
**Co-ordinator**  
**Department of Biotechnology**

**Date: 02-11-22**