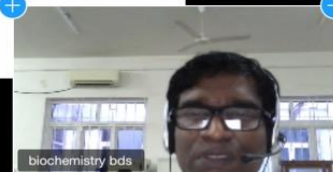
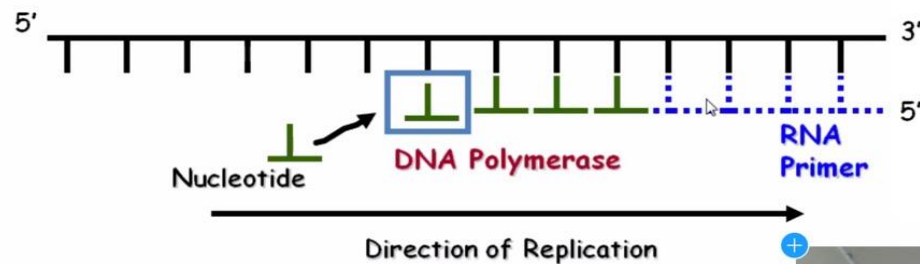


RECORD OF e CLASS USING ZOOM WEBINAR**ZOOM WEBLINK:3388413098****TOTAL NUMBER OF PRESENT:100**

PRESENTATION	LECTURE
TOPIC	DNA REPLICATION
PRESENTER	DR. MURUGAVEL
DEPARTMENT	DEPARTMENT OF BIO CHEMISTRY
DATE	06.04.2020
TIMING	09.30 AM TO 10:30 AM
UG PARTICPANTS	FIRST YEAR BDS 2019 - 2020

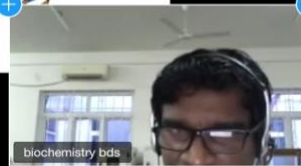
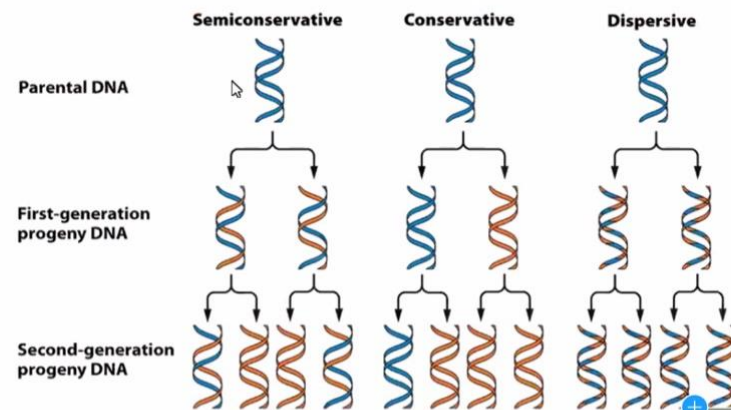
DNA Replication

- DNA polymerase can only add nucleotides to the 3' end of the DNA
- This causes the NEW strand to be built in a 5' to 3' direction





Possible Mechanisms of DNA Replication





Steps Involved in Replication

- ❖ Relaxation
- ❖ Locating the origin
- ❖ Unwinding
- ❖ Synthesis of Primer
- ❖ Polymerization
- ❖ Ligation
- ❖ Termination & Super coiling

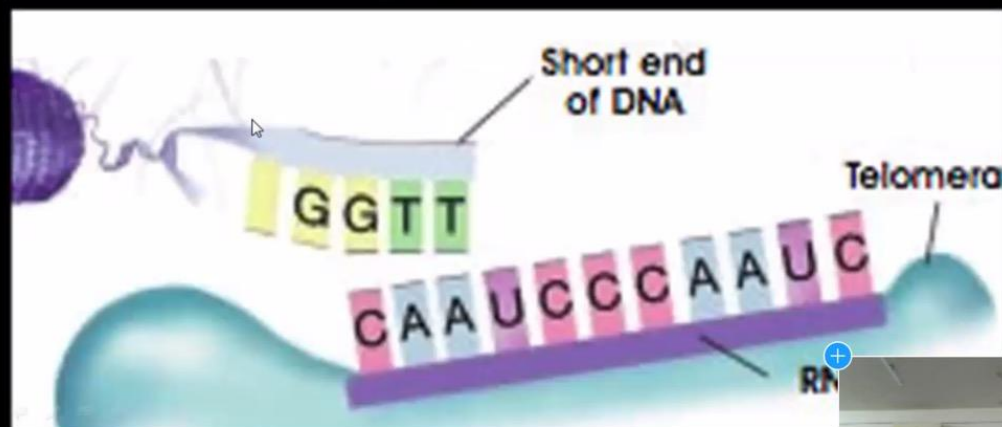




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Before - short telomere



9:48 AM Mon 6 Apr

Leave Meeting

338-841-3098

Password: 385013

Unmute

Stop Video

Share Content

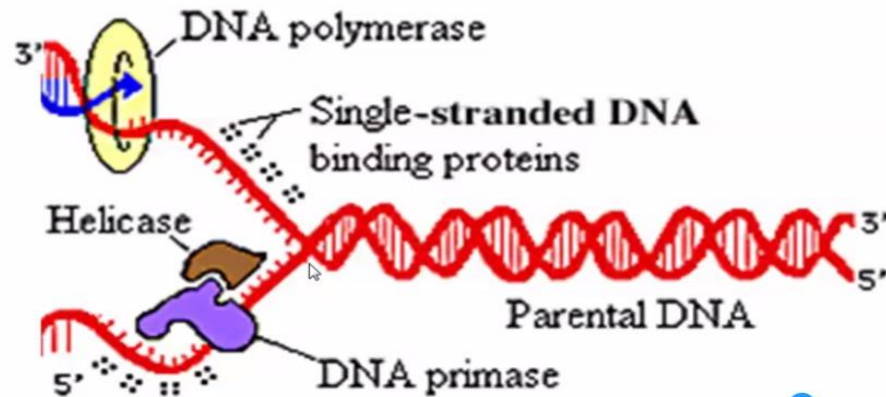
Participants

More

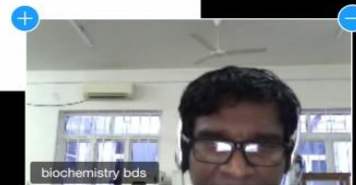


Switch Camera

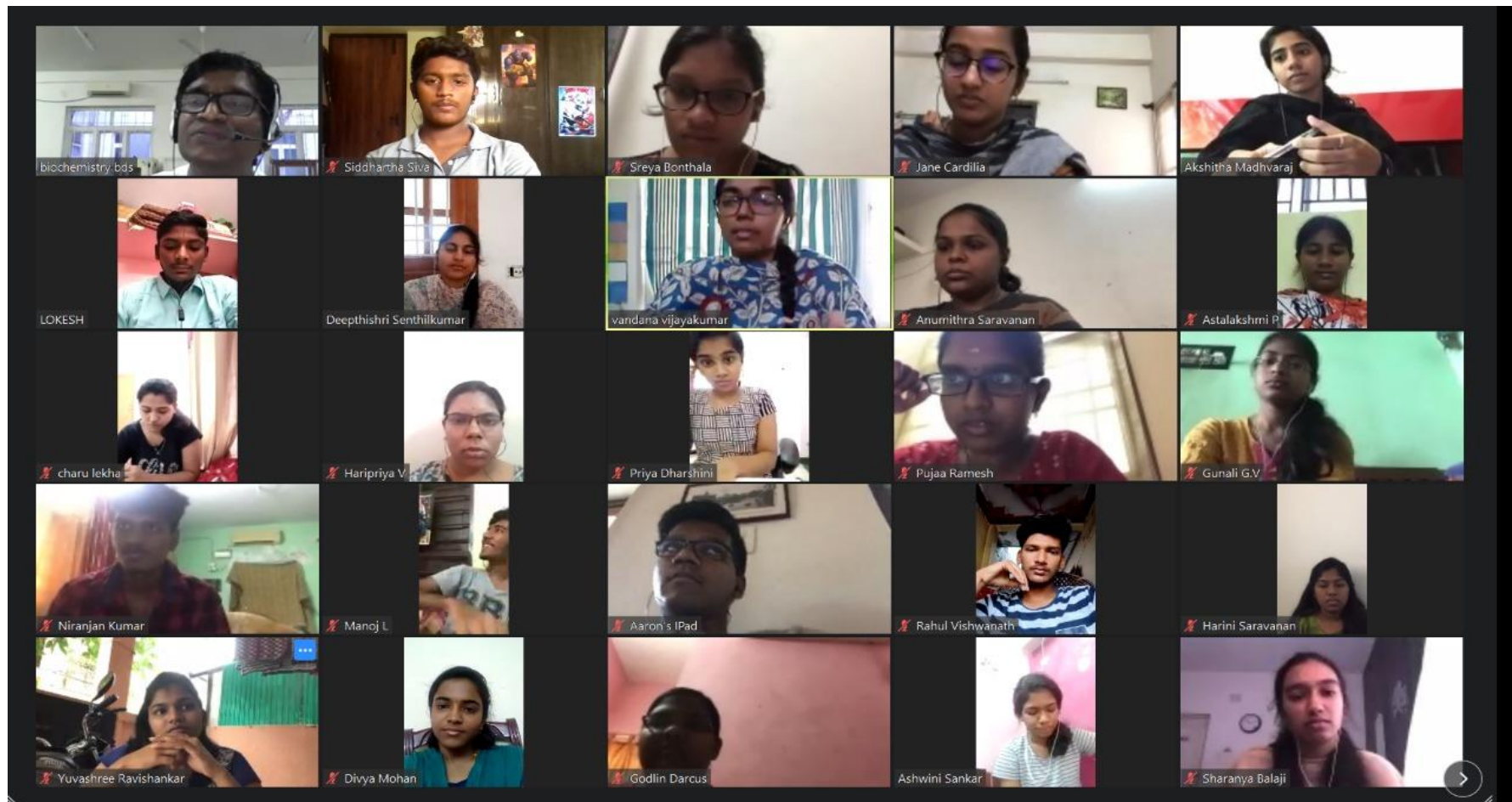
Single-Strand Binding Proteins (SSB) attach and keep the 2 DNA strands separated and untwisted

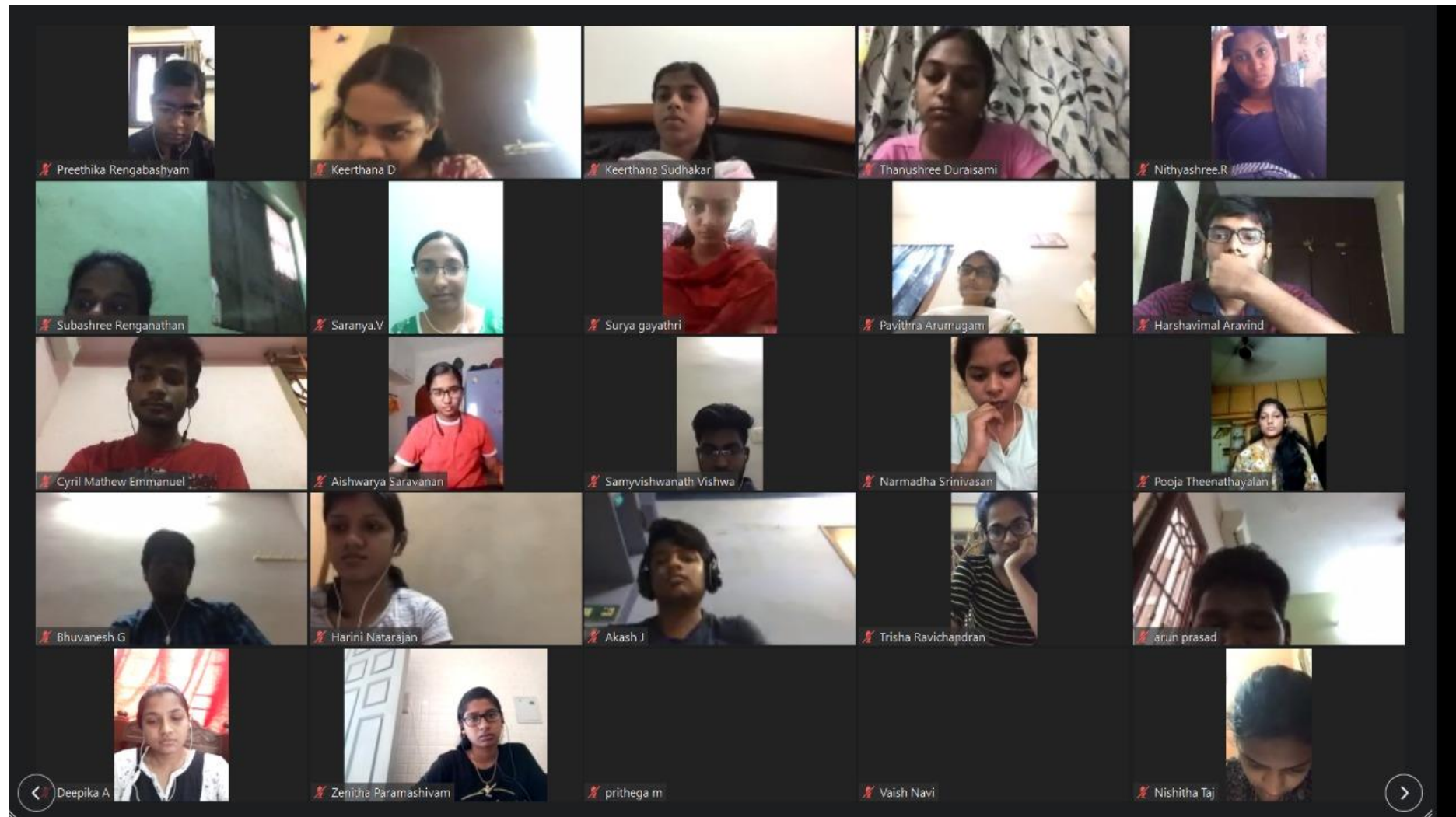




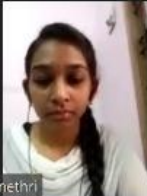






















biochemistry bds' screen



PARTICIPANTS VIDEO TILES






























 Lakshitha Ramesh	 Priyanka R	 Subha Abirathi	 Bharani Dharan	 RAM SHWASTHIKA
 Vishnuri V	 Yash Navin	 Vignesh mani	 Nicky chandrasekaran	 NOWFIYA FATHIMA
 Aravind Selvarani	 Mary Pon Anusha G	 Kaviya	 Lakshikhaa shri Vengatachalam	 Daisy Mary
 Ramith Samuel	 Connecting to audio ✓	 Manoj L	 Sushurutha ana...	 NIRUVINDA S
 Bharath Chandar	 PK	 Sneha	 Akshaya Hogwarts	 Durga Suresh



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Participants (97)		
A	Anusaya Babu	 
A	Aravind Rajesh	 
AS	Aravind Selvamani	 
	arun prasad	 
AS	Ashwini Sankar	 
AP	Astalakshmi P	 
b	badma priya	 
b	Bavatharine Purushotha...	 
<div>Chat</div> <div>Invite</div>		

Participants (96)		
S	Subha Abinethri	 
SD	Subhashree Dhanaraj	 
SG	Surya gayathri	 
SA	Sushurutha ananthan	 
TV	TANVI V SHUKLA	 
TD	Thanushree Duraisami	 
TR	Trisha Ravichandran	 
VN	Vaish Navi	 
Chat Invite		

Participants (98)

BC Bharath Chandar  

BG Bhuvanesh G  



 charu lekha  

CM Cyril Mathew Emmanuel  

DM Daisy Mary  

 Deepika A  

DR Divya Raji R  

D Durga Suresh  

Chat


















Invite



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Participants (98)

R	RAM SHWASTHIKA	 
R	Ramith Samuel	 
SK	Saarah Khan	 
	samyuktha bala	 
S	Saranya.V	 
SB	Sharanya Balaji	 
	Siddhartha Siva	 
S	Sneha 🌀 ✨	 

Chat

Invite



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Participants (97)



Mary Pon Anusha G



Nandhini R



Narmadha Srinivasan



Nicky chandrasekaran



NIRUVINDA S



Nithyashree.R



NOWFIYA FATHIMA



Pavithra Arumugam



























Chat

Invite




















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Participants (98)		
	PK	 
	Pooja Theenathayalan	 
	Pravin Rajendran	 
	Preethika Rengabashyam	 
	prithega m	 
	Priya Dharshini	 
	Priyanka R	 
	Pujaa Ramesh	 
Chat Invite		



Participants (98)

KD	Keerthana D	 
D	Keerthana Sudhakar	 
k	keerthiga lakshmi	 
KR	Kesav raj	 
	Lakshikhaa shri Vengata...	 
LR	Lakshitha Ramesh	 
L	LOKESH	 
MM	Madhu Mitha	 



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RECORD OF e CLASS USING ZOOM WEBINAR

ZOOM WEBLINK:3388413098,78388219

TOTAL NUMBER OF PRESENT:100

PRESENTATION	LECTURE
TOPIC	PROTEIN SYNTHESIS : TRANSLATION
PRESENTER	DR. MURUGAVEL
DEPARTMENT	DEPARTMENT OF BIO CHEMISTRY
DATE	07.04.2020
TIMING	09.30 AM TO 10:30 AM
UG PARTICIPANTS	FIRST YEAR BDS 2019 - 2020

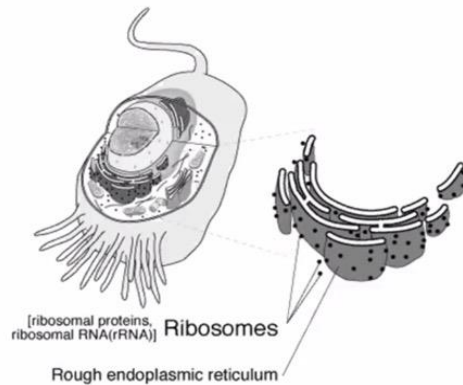


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REC

Site of protein synthesis -- **RIBOSOMES**



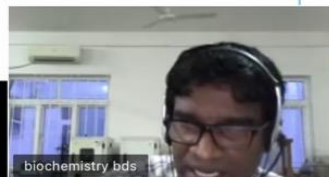
Ribosome are present free in cytoplasm or attached to rough endoplasmic reticulam. It is also present in mitochondria . The **ribosome** is a multi-component entity, composed of **ribosomal RNA's** and **78** different **proteins**.

rRNA plays key role in the binding of mRNA to ribosomes

1



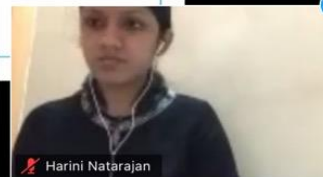
Niranjan Kumar



biochemistry bds



vandana vijayakumar



Harini Natarajan

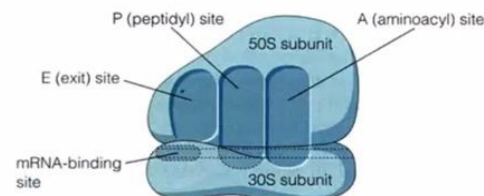


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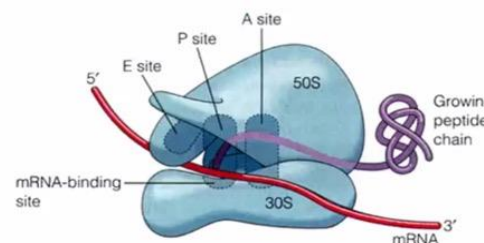
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The bacterial ribosome

- 50S and 30S subunits in bacteria
- S stands for “Svedberg units”
- Four sites:
 - mRNA binding site
 - A site (incoming aminoacyl tRNA)
 - P site (growing polypeptide)
 - E site (discharged tRNA)



(a)



(b)



Preethika Rengabashyam



Lakshikhaa Shri Vengatachalam



Rahul Vishwanath



RAM SHWASTHIKA

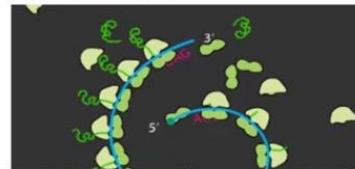


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Polyribosomes

- Many ribosomes can work on the same mRNA molecules simultaneously & these aggregates are called **POLYRIBOSOMES** or **POLYSOMES**
- It enhances the efficiency of translation
- In eukaryotes, **POLYRIBOSOMES** are attached to the surface of the rough endoplasmic reticulum and the outer membrane of the nucleus; In bacteria they are found free in the cytoplasm.



N Navin



Sharanya Balaji



Pujaa Ramesh



Astalakshmi P.

9:47 AM Tue 7 Apr


Leave Meeting 338-841-3098 Password: 385013

Unmute Stop Video Share Content Participants More

Switch Camera

mRNA

- It is called messenger RNA since it carries **message** from the **DNA** and it acts as a **template** for **protein synthesis**.
- It is derived from hnRNA which is having the sequences of both EXON and INTRON.
- It is synthesized with in nucleus and comes out of it through **nuclear pore** to cytoplasm at the time of **protein synthesis**
- mRNA contains only **EXONS**



biochemistry bds' screen

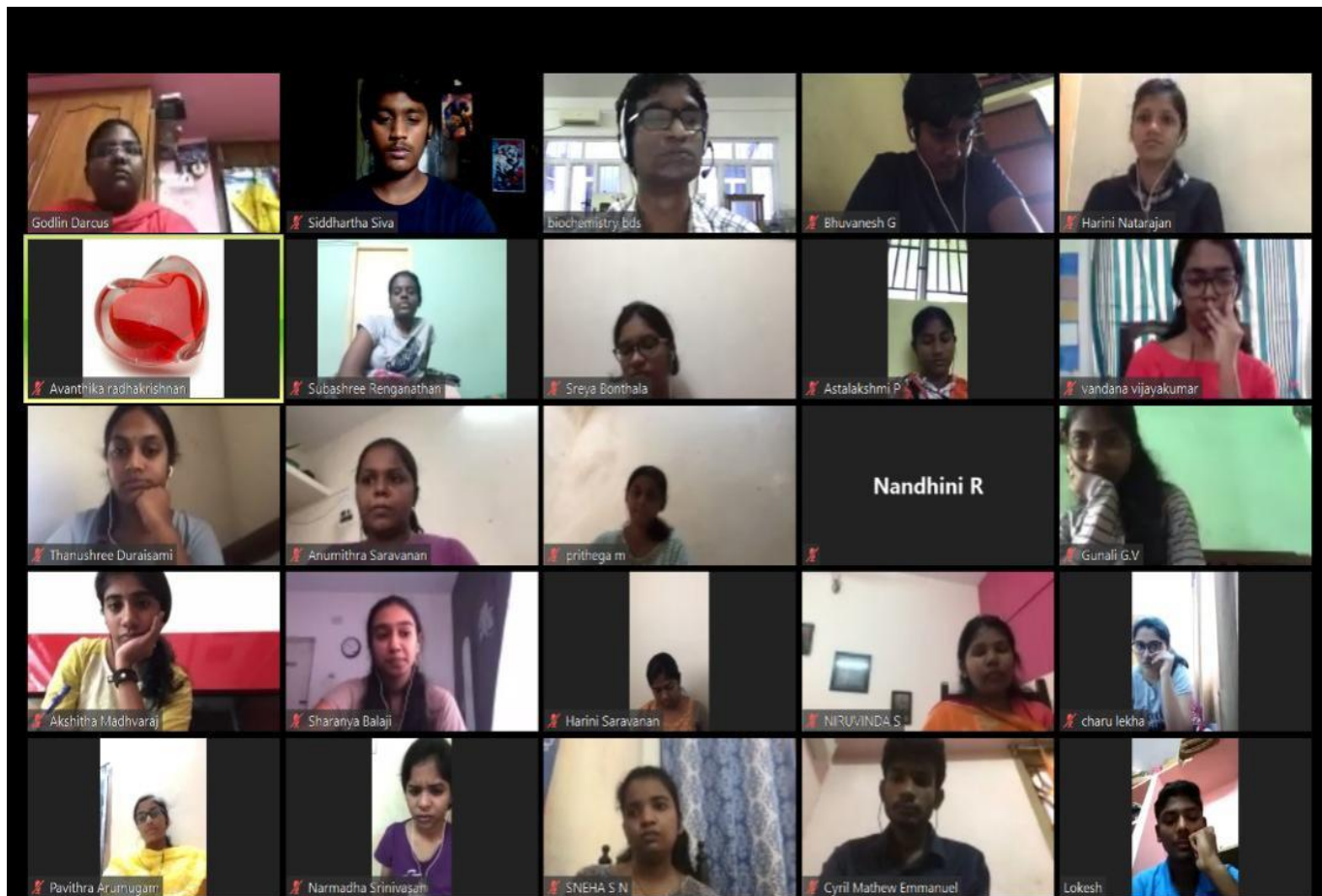
vandana vijayakumar

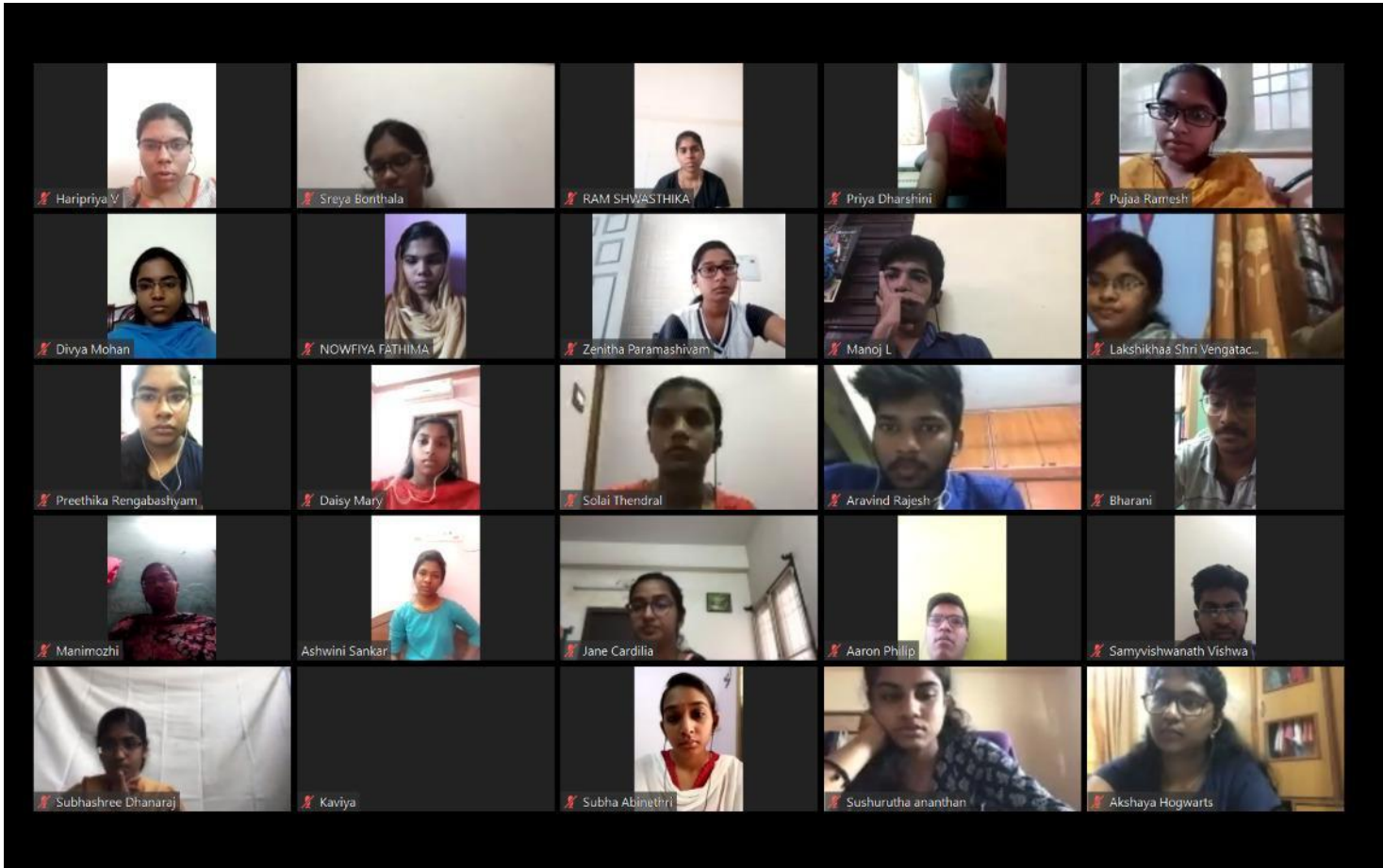
Aravind Rajesh

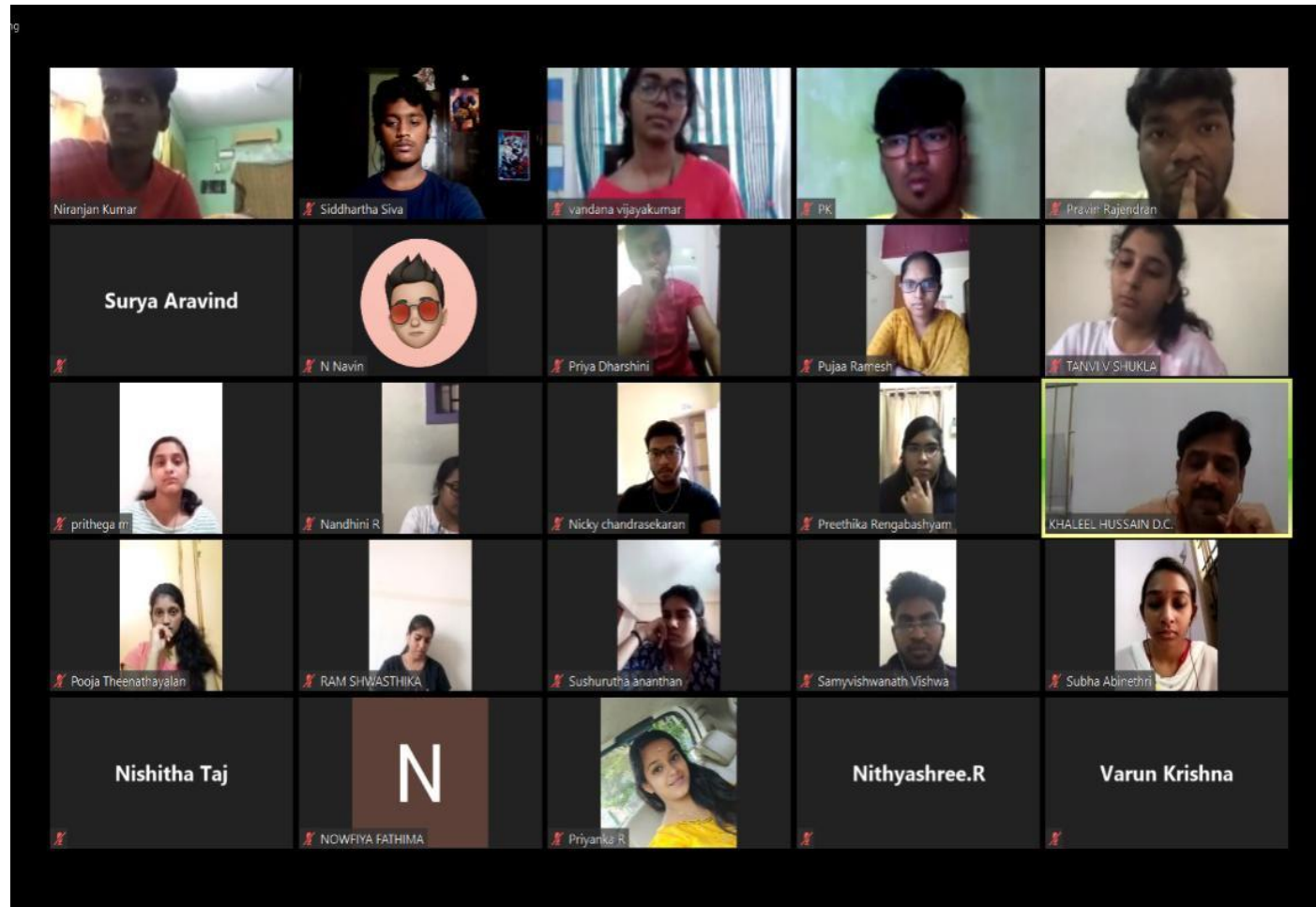
Subha Abinethri


















prithega m


















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AI	Aaron's IPad	 
	Abinaya Udayakumar	 
AK	Aishu k	 
AS	Aishwarya Saravanan	 
	Akash J	 
AS	Anumithra Saravanan	 
A	Anusaya Babu	 
A	Aravind Rajesh	 

	charu lekha	 
CM	Cyril Mathew Emmanuel	 
DM	Daisy Mary	 
DM	Divya Mohan	 
DR	Divya Raji R	 
D	Durga Suresh	 
ER	Esha Rithika	 
FA	Fathina Abdul Majeed	 






















K	Kaviya	 
KD	Keerthana D	 
D	Keerthana Sudhakar	 
k	keerthiga lakshmi	 
K	Kesava Raj	 
	Lakshikhaa Shri Vengata...	 
LR	Lakshitha Ramesh	 
L	LOKESH	 

	Priyanka R	 
	Pujaa Ramesh	 
	RAM SHWASTHIKA	 
	Ramith Samuel	 
	samyuktha bala	 
	Samyviswanath Vishwa	 
	Saranya.V	 
	Sharanya Balaji	 


















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	Sreya Bonthala	 
	Sri Sindhu	 
	sri vaishna	 
	Subashree Renganathan	 
	Subha Abinethri	 
	Subhashree Dhanaraj	 
	Surya Aravind	 



TV	TANVI V SHUKLA	 
TD	Thanushree Duraisami	 
W	vandana vijayakumar	 
VK	Varun Krishna	 
W	Vishnusri V	 
YR	Yuvashree Ravishankar	 
Z	Zenitha Paramashivam	 
VM	Vignesh Mani KU	

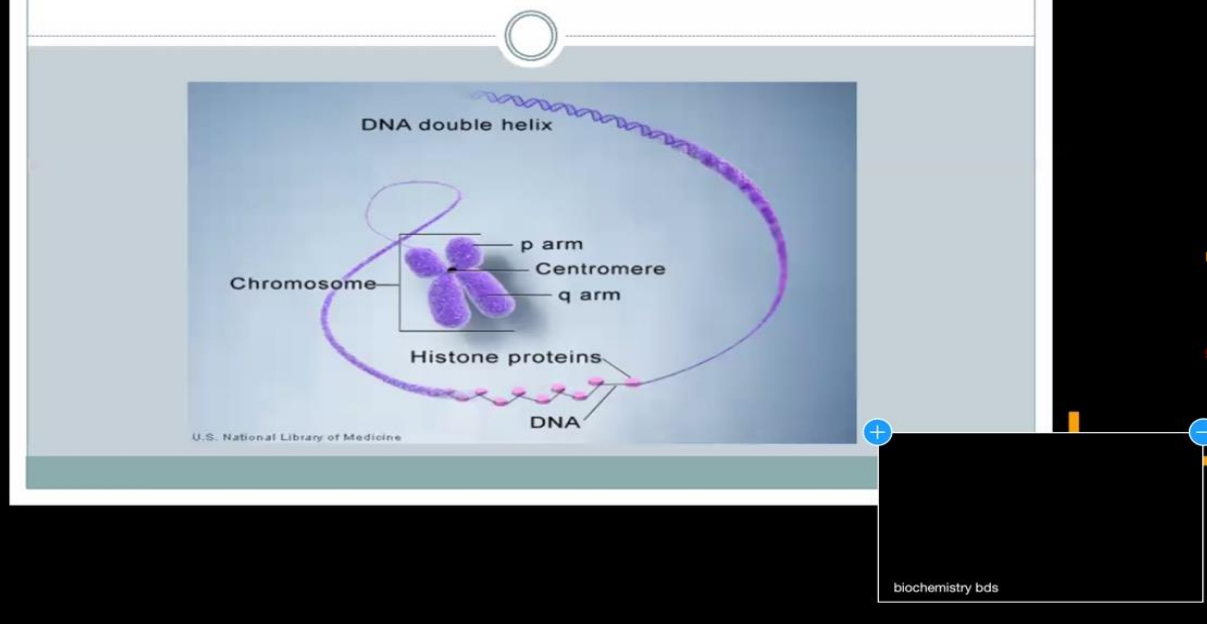
RECORD OF e CLASS USING ZOOM WEBINAR

ZOOM WEBLINK:3388413098
TOTAL NUMBER OF PRESENT:96

PRESENTATION	LECTURE
TOPIC	CHEMISTRY OF NUCLEIC ACIDS
PRESENTER	DR. RASHMI
DEPARTMENT	DEPARTMENT OF BIO CHEMISTRY
DATE	10.04.2020
TIMING	11.00 AM TO 12.00 AM
UG PARTICIPANTS	FIRST YEAR BDS 2019 - 2020



DNA organization





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Levels of DNA organization

Primary structure

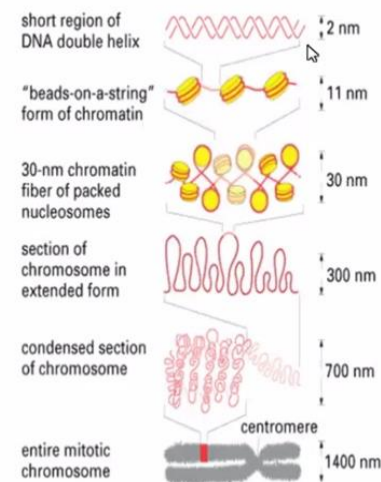
- DNA
- Chromatin
- Nucleosome

Secondary structure

- Beads-on-a string
- Solenoid form

Tertiary structure

- Chromosome



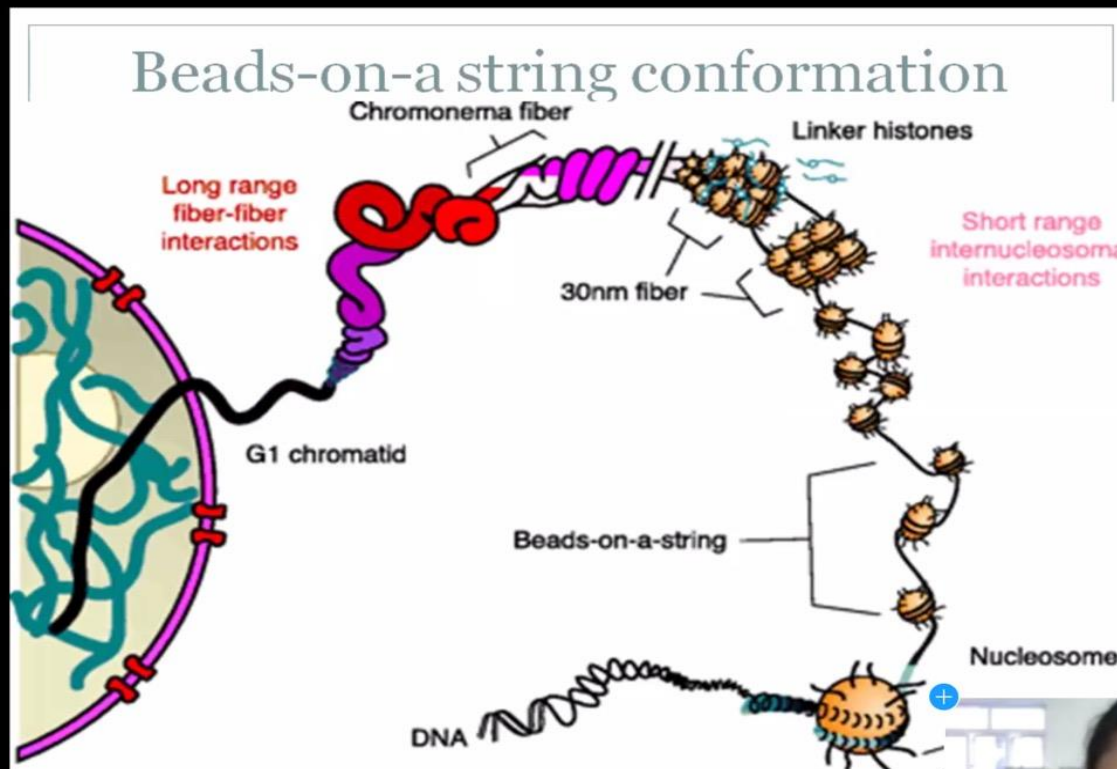
Please move
this window
away from the
shared
application.





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Please move this window away from the shared application.



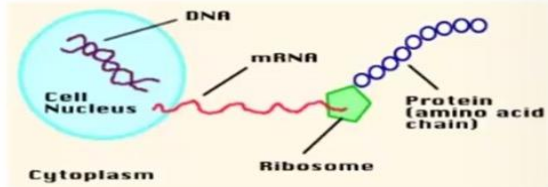
11:30 AM Fri 10 Apr

Leave Meeting

338-841-3098 
Password: 385013

Unmute Start Video Share Content Participants More




















Messenger RNA (m-RNA)



- ☐ Comprises only 5% of the RNA in the cell
- ☐ Most heterogeneous in size and base sequence
- ☐ All members of the class function as messengers carrying the information in a gene to the protein synthesizing machinery

Biochemistry For Medics

Participants (94)

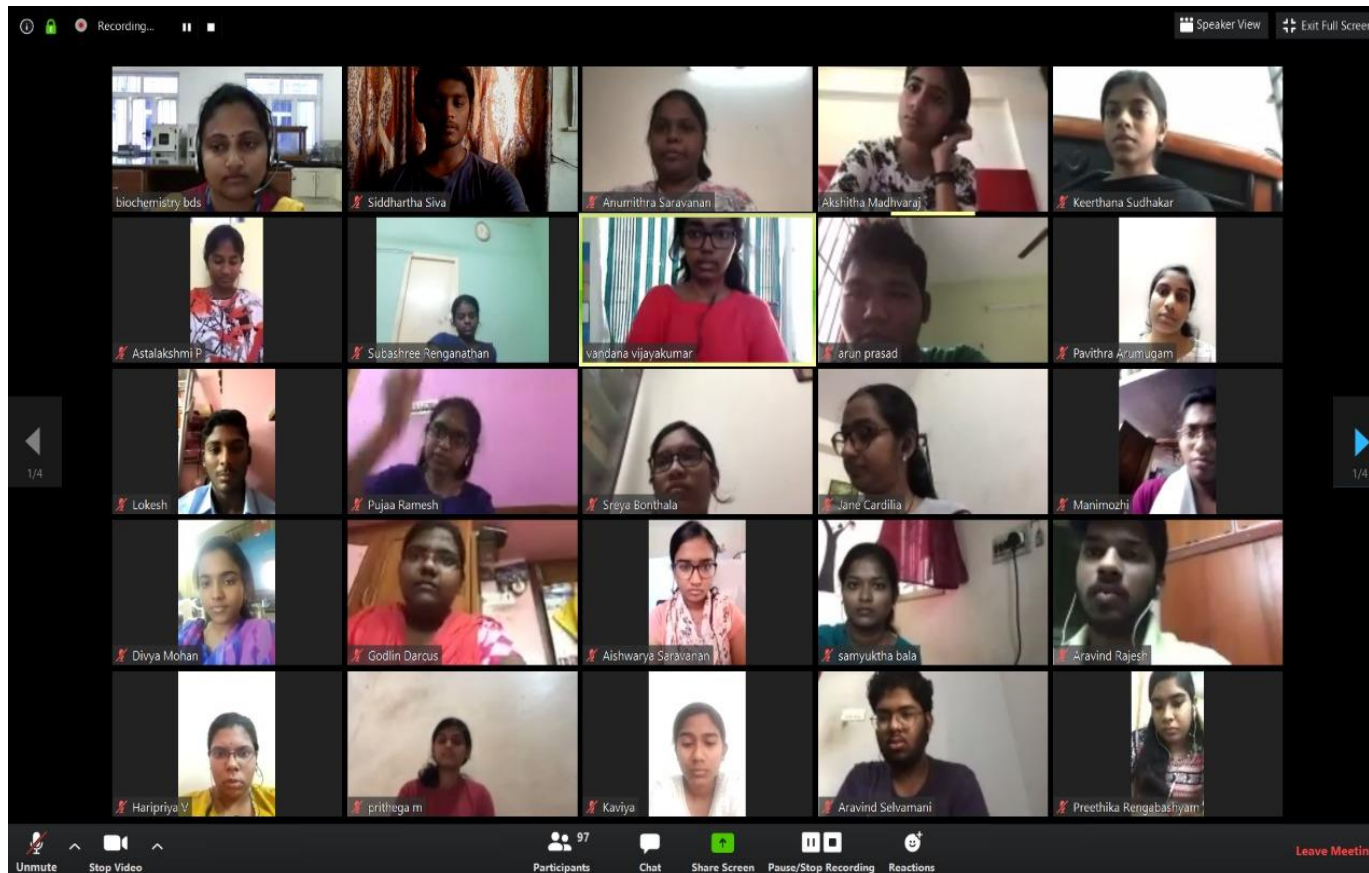
A	Anusaya Babu	 
A	Aravind Rajesh	 
AS	Aravind Selvamani	 
	arun prasad	 
AS	Ashwini Sankar	 
AP	Astalakshmi P	 
	Avanthika radhakrishnan	 
	badma priya	 

Chat Invite

biochemistry bds' screen

biochemistry bds










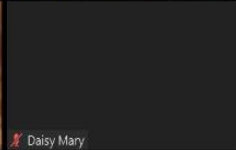















PARTICIPANTS VIDEO TILES
















































The screenshot displays a Zoom meeting interface with a grid of 20 participant video tiles arranged in 4 rows and 5 columns. The top of the window shows a status bar with icons for recording, a pause button, and a 'Speaker View' button. The bottom of the window features a toolbar with icons for unmute, stop video, participants (97), chat, share screen, pause/stop recording, and reactions, along with a 'Leave Meeting' button on the right. The participants' names are visible below their respective video tiles.

Row	Column 1	Column 2	Column 3	Column 4	Column 5
1	biochemistry bds	Siddhartha Siva	Anumithra Saravanan	Akshitha Madhvaraj	Keerthana Sudhakar
2	Astalakshmi P	Subashree Renganathan	vandana vijayakumar	arun prasad	Pavithra Arumugam
3	Lokesh	Pujaa Ramesh	Sreya Bonithala	Jane Cardilia	Manimozhi
4	Divya Mohan	Godlin Darcus	Aishwarya Saravanan	samyuktha bala	Aravind Rajesh
5	Haripriya V	prithiga m	Kaviya	Aravind Selvamani	Preethika Rengabashyam

Recording...

 Keerthana Sudhakar	 Nicky chandrasekaran	 PK	 Zenitha Paramashivam	 Akash J
 Subhashree Dhanaraj	 Sharanya Balaji	 Thanushree Duraisami	 Lakshikhaa Shri Vengatac	 Daisy Mary
 Surya gayathiri	 Manoj L	 Narmadha Srinivasan	 Rahul Vishwanath	 Samyishwanath Vishwa
 Subha Abinethi	 Harini Saravanan	 Nandhini R	 Bharanidharan.A	 Jayashree M
 sri vaishna	 NOWFIYA FATHIMA	 Bhuvanesh G	 NIRUVINDA S	 Ramith Samuel

Participants (97)		
Q Search		
	Niranjan Kumar (me)	 
	biochemistry bds (Host)	 
	Akshitha Madhvaraj	 
	Ashwini Sankar	 
	vandana vijayakumar	 
	Akshaya Hogwarts	 
	Avanthika radhakrishnan	 


Participants (97)		
	Akshaya Hogwarts	 
	Avanthika radhakrishnan	 
	Aaron Philip	 
	Abinaya Udayakumar	 
	Aishu k	 
	Aishwarya Saravanan	 
	Akash J	 
	Anumithra Saravanan	 



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Participants (97)

BC Bharath Chandar  

b Bhavadharshine Manikan...  

 Bhuvanesh G  

 charu lekha  

CM Cyril Mathew Emmanuel  

DM Daisy Mary  



 Deepika A  

DS Deepthishri Senthilkumar  

Participants (97)

DM Divya Mohan  

DR Divya Raji R  

D Durga Suresh  

ER Esha Rithika  

















FA Fathina Abdul Majeed  

 Godlin Darcus  


















 Gunali G.V  

HN Harini Natarajan  




















Participants (97)

H	Harini Saravanan		
H	Haripriya V		
HA	Harshavimal Aravind		
J	Jane Cardilia		
JM	Jayashree M		
K	Kaviya		
KD	Keerthana D		
D	Keerthana Sudhakar		

Participants (97)

k	keerthiga lakshmi		
K	Kesava Raj		
	Lakshikhaa Shri Vengata...		
LR	Lakshitha Ramesh		
L	Lokesh		
MM	Madhu Mitha		
m	madhumitha balamurugan		
M	Manimozhi		

























Participants (97)

N	NOWFIYA FATHIMA		
PA	Pavithra Arumugam		
P	PK		
p	Pooja Theenathayalan		
	Pravin Rajendran		
	Preethika Rengabashyam		
	prithega m		
PD	Priya Dharshini		



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Participants (96)		
	Priyanka R	 
	Pujaa Ramesh	 
	Rahul Vishwanath	 
	RAM SHWASTHIKA	 
	Ramith Samuel	 
	samyuktha bala	 
	Saranya.V	 
	Sharanya Balaji	 



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Participants (96)

SD	Subhashree Dhanaraj		
SG	Surya gayathri		
TV	TANVI V SHUKLA		
TD	Thanushree Duraisami		
TR	Trisha Ravichandran		
VN	Vaish Navi		
VK	Varun Krishna		
W	Vishnusri V		



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Participants (96)



SNEHA S N



Solai Thendral ✨



Sreya Bonthala



Sri Sindhu



sri vaishna



Sthuthi Stazy



Subashree Renganathan



Subha Abinethri



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