

**RAMAIAH**

College of Arts, Science & Commerce

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M S Ramaiah College of Arts, Science and Commerce

Re-accredited 'A' by NAAC, Permanently Affiliated to Bengaluru City University,

Approved by Government of Karnataka, Approved by AICTE, New Delhi,

Recognized by UGC under 2f & 12B of UGC act 1956

REF: MSRCASC/BTG/23-24/36**27/07/2023****CIRCULAR**

Department of Biotechnology & Genetics is organizing a Guest Lecture on “RNA in gene expression” by Prof. Dr. Cletus J.M. D’Souza, Adjunct Professor, Dept. of Biochemistry, Mangalore University, from 11.00am to 1.00pm on Aug 02, 2023. The undergraduate (BSc IV, IInd sem) and postgraduate (MSc II & IV sem) students belonging to the Life Science are the main targeted audience.

Venue: A.P.J. Abdul Kalam Auditorium

L. Chandra
28/7/2023

With regards,

Dr. Radha Dayanidhi,
Dr. Rashmi Nagesh
(Coordinators)

Prof. Pushpa H
Vice Principal

Dr. Watsala G
Principal
Principal,

M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

M S Ramaiah Nagar
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PATRONS

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Sri M.R. Janakiram, Director, GEF
Sri M.R. Kondandaram, Director, GEF
Sri B.S. Ramaprasad, CE, GEF
Sri G. Ramachandra, COF, GEF
Dr. Vatsala G, Principal, MSRCASC
Prof. Jayarama B S, Vice Principal
Dr. Puspha H, Vice Principal

ORGANIZING COMMITTEE

Dr. Lakshminanth R N, Associate Prof & Head
Dr. Channarayappa. Professor
Dr. D.R. Jayashree, Associate Professor
Dr. Ramakrishnaiah T N, Assistant Professor
Dr. Sowbhaya R., Assistant Professor
Dr. Radha Dayanidhi, Assistant Professor
Dr. Geetika Pant, Assistant Professor
Dr. Vinutha M., Assistant Professor
Dr. Rashmi Nagesh, Assistant Professor
Ms. Beulah Angel, Assistant Professor
Dr. Pramod Prakash Desai, Assistant Professor
Dr. Pavithra Kumari H G, Assistant Professor
Dr. Muktha H, Assistant Professor
Dr. Satish Babu, Assistant Professor
Dr. Ramesha N, Assistant Professor
Dr. Vijayalakshmi T N, Assistant Professor

ABOUT THE GUEST LECTURE:

The guest lecture is an initiative to educate the Life science students and enhance their knowledge in the field of Molecular Biology besides to update the recent advances in the field.

Objectives

1. The guest lecture inculcates students with effective learning and critical thinking
2. To revive the interest of students and provides the opportunity to interact with expertise
3. To foster the students with communication skills and enhance their knowledge
4. Lectures are more approachable and appealing to students

Co-ordinator

Dr. Radha Dayanidhi

Email: radha_biotech@msrcasc.edu.in

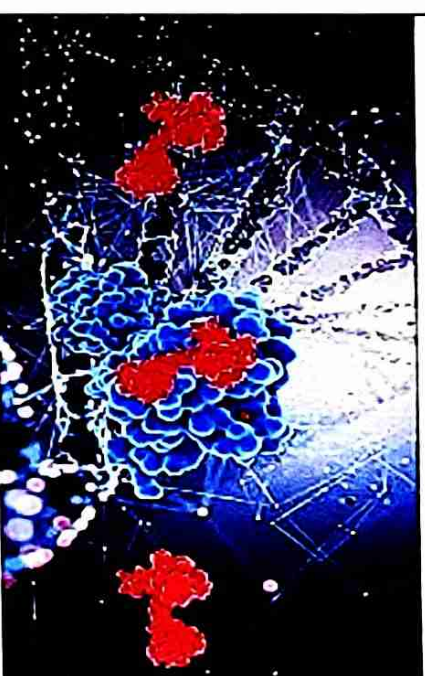


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& Commerce



Guest Lecture on "RNA in Gene Expression"

AN IQAC INITIATIVE



A u g u s t 2 , 2 0 2 3

Venue: A P J Abdul Kalam Auditorium
Time 11.00am- 1.00pm

Organized by
Department of Biotechnology and Genetics
M S Ramaiah College of Arts, Science and
Commerce

<https://msrcasc.edu.in>

<https://msrcasc.edu.in/its-biotechnology-applied-genetics>

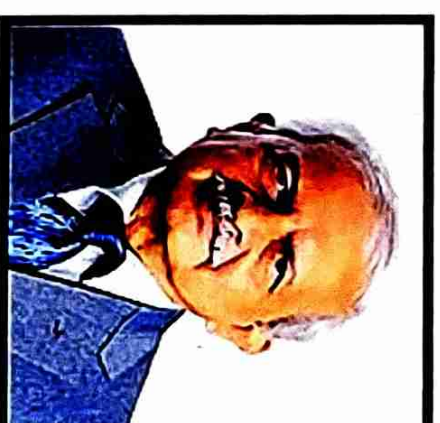
ABOUT THE COLLEGE:

Dr. M S Ramaiah, a visionary and philanthropist established "Gokula Education Foundation (GEF)", in the year 1962, to deliver education and healthcare for the betterment of mankind. Under the tutelage of GEF, M S Ramaiah College of Arts, Science and Commerce (MSRCASC) was established in 1994. MSRCASC is Re-accredited with "A" Grade by NAAC, Permanently affiliated to Bengaluru City University (BCU), and approved by AICTE. It is also recognized under section 2(f) & 12(B) of the UGC Act 1956. It has produced several rank holders and has alumni in distinguished institutions all over the world. The College has a legacy of organizing workshops, international and national conferences in various disciplines of Science, Commerce and Management in addition to Quality Initiatives in Higher Education.

ABOUT THE DEPARTMENT:

Department of Biotechnology and Genetics in the M S Ramaiah College of Arts, Science and Commerce, was established in the year 2000 offering both UG and PG programs. The main objective of the programs is to provide conducive learning environment for the students and to mitigate the shortage of biotechnologists in the field of food, agriculture, medicine and environmental management. Highly qualified and experienced faculty members deliver the lectures and conduct the practical in various subjects of as per the curriculum developed by the Bangalore City University. The department focuses mainly on teaching the basics, applications and hands-on-training in a state-of-the-art classroom and laboratory environment. It also facilitates students to broaden their knowledge for multitasking opportunities by conducting various curricular and extracurricular activities.

Resource Person



Dr. Cletus J M D'Souza

Adjunct Professor

**Department of Biochemistry
Mangalore University**





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Report on Guest lecture, 'RNA in gene expression'

(An IQAC initiative)

Title: 'RNA in gene expression'

Resource Person: Dr. Cletus J.M. D'Souza, Adjunct Professor, Dept. of Biochemistry, Mangalore University, Mangalore

Organizer: Dept. of Biotechnology and Genetics

Date and time: August 2, 2023, 11.00 PM-1.00 PM

Venue: APJ Abdul Kalam auditorium, MSRCASC, Bengaluru

Participants: UG & PG students of Life Science, Faculty of Life Science, MS Ramaiah college of Arts, Science and Commerce, Bangalore

Objectives

1. To inculcate the students with effective learning and critical thinking
2. To revive the interest of students and provides the opportunity to interact with expertise
3. To foster the students with communication skill and enhance their knowledge
4. The guest lectures was more approachable and appealing to the students

The department of Biotechnology and Genetics organized a Guest lecture for Life Science students on August 2, 2023. The guest lecture programme commenced with the welcome address by Dr. Jayashree D.R., Associate Professor. The resource person was welcomed with the sapling by the Principal. Later, Dr. Lakshmikanth R.N., Head of the dept. of Biotechnology & Genetics, briefed about the guest lecture. Dr. Vatsala G., Principal addressed the gathering through which the message was delivered to students to inculcate the critical thinking and motivated to update their knowledge from guest lecture. Tejaswini, BSc IV sem student anchored the entire program.

Dr. Sathish Babu, Assistant Professor, Dept. of Biotechnology & Genetics introduced the resource person- Dr Cletus accomplished his Masters and Doctorate in Biochemistry from

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the University of Mysore. He pursued his Post-doctoral research at Dalhousie University, Canada for two years and joined the department of Biochemistry, University of Mysore as a lecturer followed by positions such as Reader and Professor, retired during the year 2013. He was awarded the Emeritus professor position from the UGC for two years which he completed in February 2017. He currently working as Adjunct Professor at Dept. of Biochemistry, Mangalore University, and Mangalore. He is a 'Visiting Professor' at Cardiovascular Research and Training Institute at Salt Lake city, USA. He has received the International Union of Biochemistry award. He was the president of the Mysore branch of the Society of Biological Chemists, India; served as an Academic Council member, member of the Research Advisory council, and as a member of Boards of selection. In addition, he was the Chairman, Committee for Development of Science in schools and University of Mysore. Added to his credits, he had Research grants from DST, DBT, UGC, ICMR and CSIR, and also from Erwin Braun Foundation from Switzerland. He has published 70 papers, three book chapters and has made over 120 presentations at National and International conferences. He is the director of a Biotechnology company. With this brief introduction, called upon the guest Dr. Cletus JM D'Souza to deliver the lecture.

Dr. Cletus explained about genes and their expression leading to the formation of proteins. Further, the control of gene expression can occur at transcription, RNA processing and translation level. He explained about the non-coding RNA which constituted 53% of junk DNA. Besides the nucleus, a compartment to which is overcrowded with the DNA with histones finally packed into chromosomes. The transcription has to happen by breaking the histone-DNA interaction. The histone has tails and got c-terminal and amino-terminal tails. The post-translational modifications take place by acetylation or methylation or phosphorylation. However the tailless histones function equally. The histone modifying enzymes aid in this process, Acetylases write the code & deacetylase remove the code added and also activate the gene or deactivate by shutting off the genes. The transcription factors and RNA polymerase bind to the chromatin during the time of expression of genes by modification of histone tails. The chromatin modifying complexes by non-coding RNA to make the genes expressed, favours the transcription. The long non-coding RNA act as decoy molecules bind to the sequester proteins thereby inhibiting the gene expression. The gene silencing by antisense RNA was discovered. The RNA silencing can happen by microRNAs



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and also micro RNA are there to mop off micro RNAs. TmRNA has properties of tRNA and mRNA. CRISPR CAS has a family of DNA repeats found in most bacteria and archaeal genomes. The application of CRISPR-CAS technology in gene knock-out and knock-in was explained and can be also used *in vivo* and *ex vivo* gene editing.

The lecture was informative and ended up with the good interactive session which had good number of queries from students and faculty. The lecture was interesting with research data and examples. The session ended with whole-hearted thanks speech delivered by Dr. Radha Dayanidhi, Assistant Professor, Dept. of Biotechnology and Genetics, acknowledged the speaker with memento as a token of respect. The feedback form link was sent to students to understand the benefit of the lecture gained by them.



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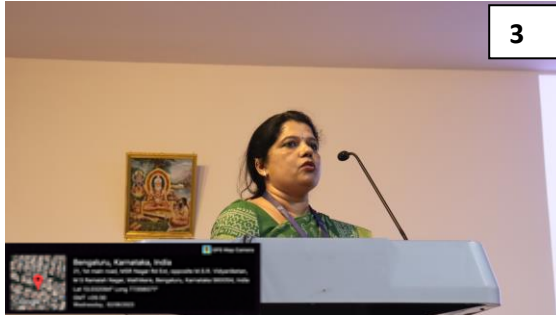
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Glimpses of the guest lecture





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1. Anchoring by Tejaswini, BSc IV sem student
2. Welcome address by Dr. Jayashree D.R., Associate Professor, Dept. of Biotechnology & Genetics
3. Address by Vatsala G., Principal, MSRCASC
4. Dignitaries seated on the dais
5. Dr. Lakshmikanth R.N., HOD, Dept. of Biotechnology & Genetics
6. Introduction of the resource person by Dr. Sathish Babu
7. Dr. Cletus delivering the lecture
8. Dr. Cletus delivering the lecture
9. Student with a query
10. Vote of thanks by Dr. Radha Dayanidhi



Faculty of Life Science, BSc students on August 2, 2023



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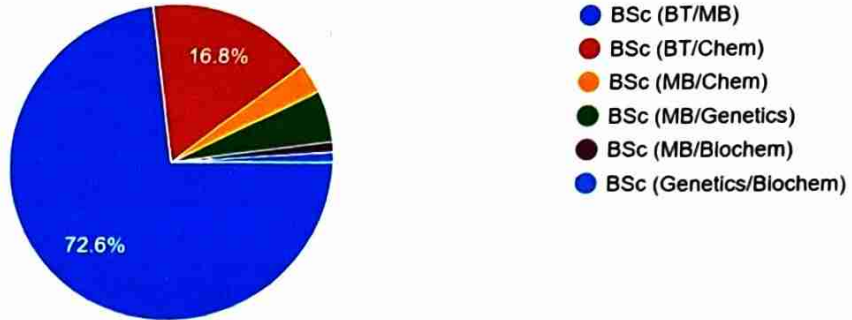
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Feedback analysis

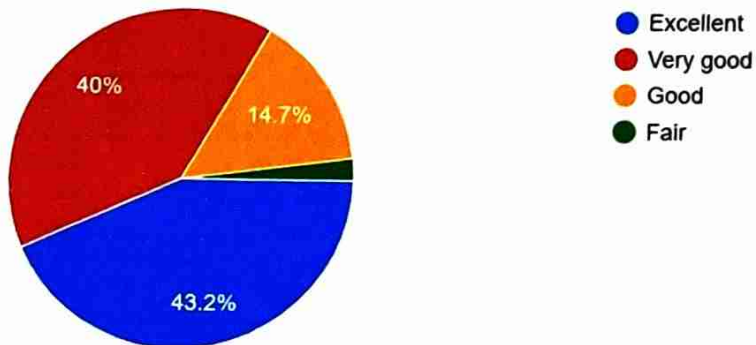
Course

95 responses



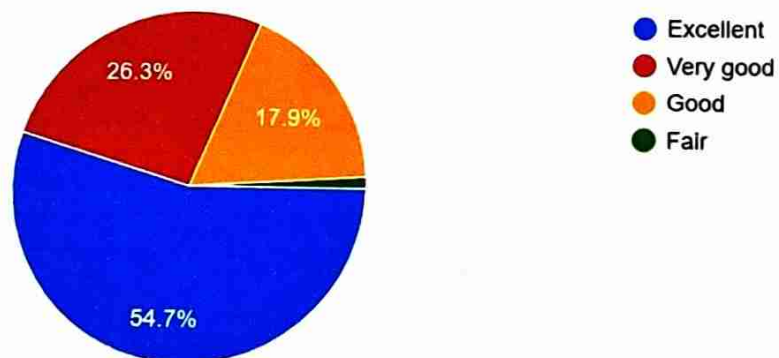
Effectiveness of the presentation

95 responses



Relevance of the Topic chosen

95 responses





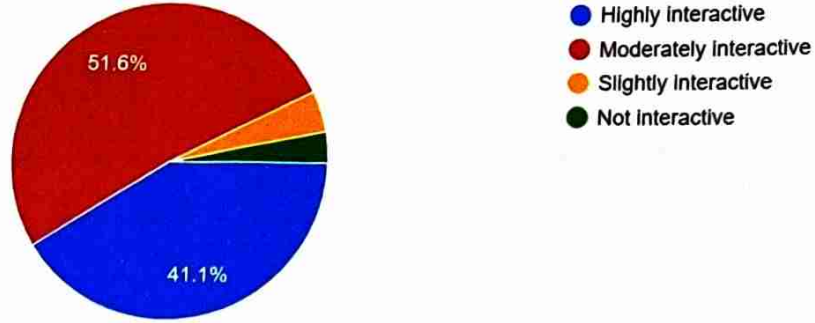
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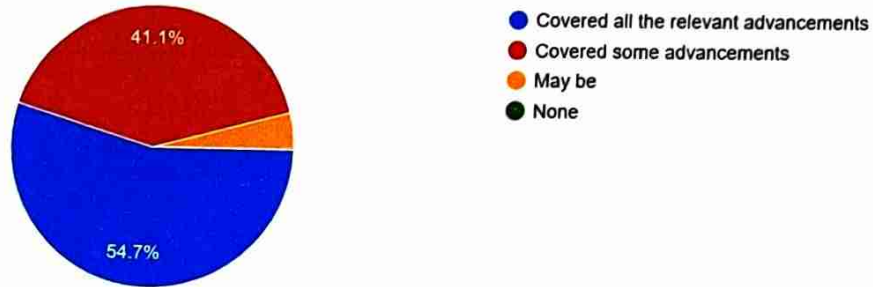
How would you rate the level of interaction and engagement during the seminar sessions?

95 responses



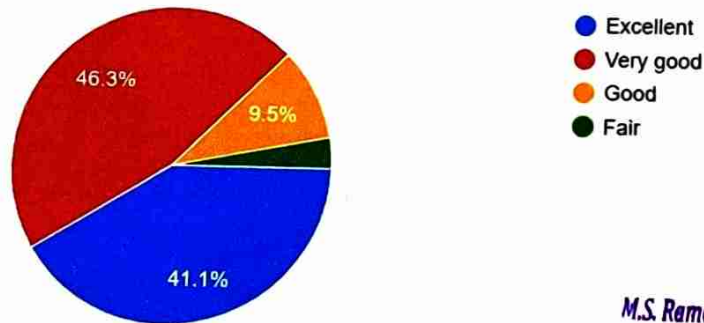
Did the guest lecture adequately address the latest advancements and trends in the life science field?

95 responses



How would you rate the overall organization and planning of the life science seminar?

95 responses



Vatsabhy

Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054

Guest Lecture on "RNA in gene expression"

Organised by

Department of Biotechnology & Genetics

Time: 11.00-1.00

Date: Aug 2, 2023

Students' Attendance

Sl. No.	Student name	Class	Signature
1.	Niharika SN	2 nd Sem BT/MB	Niharika
2.	J Shiny Roberta	2 nd Sem BT/MB	J Shiny Roberta
3.	Hastha. D	2 nd Sem BT/MB	Hastha
4.	K. Lalitha Krishna	2 nd Sem BT/MB	Lalitha Krishna
5.	Lakshika V.	2 nd Sem BT/MB	Lakshika V.
6.	Ananya. S	2 nd Sem BT/MB	Ananya. S
7.	Deekshitha. M. S	2 nd Sem BT/MB	Deekshitha. M. S
8.	Sangeetha. V	2 nd Sem BT/MB	Sangeetha. V
9.	Anagharavsha. B. S	4 th Sem BT/MB	Anagharavsha. B. S
10.	Chethan. G 'A' sec	4 th SEM BT/MB	Chethan. G
11.	Gowtham. R 'A' sec	4 th Sem BT/MB	Gowtham. R
12.	Gowardhana. V 'A' sec	4 th Sem BT/MB	Gowardhana. V
13.	Megha Raj 'B' sec	2 nd Sem BT/chem	Megha
14.	Lakshmi. A. S 'B' sec	2 nd Sem BT/chem	Lakshmi
15.	Niveditha. R 'B' sec	2 nd Sem BT/chem	Niveditha. R
16.	Devika. d 'B' sec	2 nd Sem BT/chem	Devika
17.	Tejaswini. S 'B' sec	2 nd Sem BT/chem	Tejaswini
18.	Keziga. G. S. 'B' sec	2 nd Sem BT/chem	Keziga. G. S.
19.	Nanya. L 'B' sec	2 nd Sem BT/chem	Nanya
20.	Nagalakshmi. M 'B' sec	2 nd Sem MB/chem	Nagalakshmi
21.	Gita Anjali. B 'A' sec	2 nd Sem BT/MB	Gita Anjali
22.	B. Janani 'A' sec	2 nd Sem BT/MB	B. Janani
23.	Prakruthi. R 'B' sec	1 st Sem BT/MB	Prakruthi. R
24.	Prigadarshini. K 'B' sec	1 st Sem BT/MB	Prigadarshini. K
25.	Varsha. M 'B' sec	1 st Sem BT/MB	Varsha. M
26.	Prajna. G 'B' sec	1 st Sem BT/MB	Prajna

Guest Lecture on "RNA in gene expression"

Organised by

Department of Biotechnology & Genetics

Time: 11.00-1.00

Date: Aug 2, 2023

Students' Attendance

Sl. No.	Student name	Class	Signature
1.	Rakshitha B.R	MB/GT BSC IV	Rakshitha
2.	AKKA MAHADEVI D	BSC MB/BC	Madhu
3.	TEJASHREE S	BSC BC/Gen	Tejashree
4.	NANDINI A	BSC BC/GEN	Nandini
5.	DEVIKA V	BSC BC/GEN	Devika
6.	INDHUJA V	BSC BC/GEN	Indhuja
7.	Deepika (IV) Sem	BSC BT/MB	Deepika
8.	N. Lakshmi Bhavani (IV Sem)	BSC BT/MB	N. Lakshmi
9.	M. Karthikeya (IV) Sem	"	M. Karthikeya
10.	Varsha M	BSC BT/MB	Varsha M
11.	Keerthi R.P	BSC BT/MB	Keerthi
12.	Pragna G	BSC BT/MB	Pragna
13.	Amal Krishna C	BSC MB/BT	Amal Krishna
14.	Aishwarya V.S	BSC BT/MB	Aishwarya V.S
15.	ARYA K	BSC BT/MB	Arya K
16.	KEERTHANA I.S	BSC BT/MB	Keerthana
17.	Varsha K.V	BSC BT/MB	Varsha K.V
18.	Tejaswini K.S	BSC BT/MB	Tejaswini
19.	Sanjana N Raj	BSC BT/MB	Sanjana N. Raj
20.	Mitali Prasad	BSC BT/Chem	Mitali
21.	Pratyakshi Singh	BSC BT/MB	Pratyakshi
22.	Shraddha Sudharshan	BSC BC/Gen	Shraddha
23.	S. Abincha	BSC BT/MB	S. Abincha
24.	Syed Nabil Asif	BSC BT/MB IV Sem	Syed Nabil Asif
25.	Kyaz Sincan	BSC MB/GEN	Kyaz Sincan
26.	Saptarshhee Das	BSC BT/MB	Saptarshhee

Guest Lecture on "RNA in gene expression"

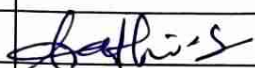
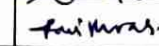
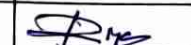
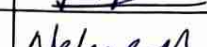
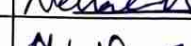
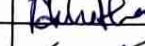

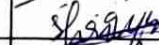

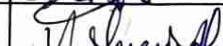

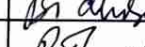
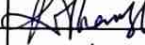


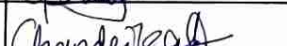

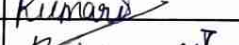



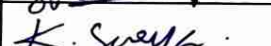

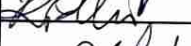


Organised by

Department of Biotechnology & Genetics

Time: 11.00-1.00

Date: Aug 2, 2023

Students' Attendance

Sl. No.	Student name	Class	Signature
1.	ARTHI.S.	I Sem - B	
2.	PAVITHRA.S	I Sem - B	
3.	RIYA KUMARI	I Sem - B	
4.	NEHA C.M.	I Sem - B	
5.	MAHATHNINI.G.A.	I Sem - A	
6.	LITSHA.S.	I Sem - A	
7.	SHRIYA GEJJEHALI	I Sem - C	
8.	AISHWARYA.S.V.	I Sem - C	
9.	VAISHNAVI G. HEGDE.	I Sem - C	
10.	BIDHISA DAS	I Sem - C	
11.	TANUSHREE.R.	I Sem - C	
12.	SAYANT	I Sem - B	
13.	SPOORTHY.P.	I Sem - B	
14.	CHANDRIKA.	I Sem - B	
15.	NEELAM KUMARI	I Sem - B	
16.	RAJESWARY MUKHERJEE	I Sem - B	
17.	SONA KUMARI	I Sem - B	
18.	SNEHA.M.	I Sem - B	
19.	RIDHIKA JAMWAL	I Sem - B	
20.	K.SURYA SRIKAR	I Sem - C	
21.	M.D.SAHIL HASRAT	I Sem - C	
22.	SANJIT BAIN	I Sem - C	
23.	SUFYAN AHMED.K.	I Sem - C	
24.	BUSHAN.B.	I Sem - C	
25.	H.M.POORNA CHANDRA	I Sem - C	
26.	ARELAPRABHA DEB	I sem - C	

Guest Lecture on "RNA in gene expression"

Organised by

Department of Biotechnology & Genetics

Time: 11.00-1.00

Date: Aug 2, 2023

Students' Attendance

Sl. No.	Student name	Class	Signature
	RANJITHA .M.	IV Sem - B	Ranjitha
	YASHASWINT .K.N.	IV Sem - B	Yashaswinti
	VASUDHA .K.	IV Sem - B	Vasudha
	SRI VIDYA .S.	IV Sem - B	Vidya.S.
	VAIBHAV G .P .	IV Sem - B	Vaibhav
	VARADA SRI LAXMI KRUTI	IV Sem - B	Varada
	MEGHA KEDIA	IV Sem - B	Megha
	VARSHA .S.R.	IV Sem - B	Varsha
	YASHASWINI .C.R.	IV Sem - B	Yashaswini
	PRAJWAL .M.	IV sem - B	Prajwal
	RIA RAGHU	IV Sem - B	Ria Raghu
	SHREYA J.M.	IV Sem - B	Shreya J.M.
	SHEETAL .K.	IV Sem - B	Sheetal
	SUSHMA .N.	IV Sem - B	Sushma
	QUEENCY RAINA	IV sem - B	Queency
	SHRAVYA M.V.	IV Sem - B	Shravya M.V.
	SANCHITHA SINGH	IV sem - B	Sanchitha Singh
	ROOPA SHREE .G.	IV Sem - B	Roopa
	SHALINI .S.	IV Sem - B	Shalini
	RANJITHA .R.	IV Sem - B	Ranjitha .R.
	SPOORTHY .P.	IV Sem - B	Spoorthy
	PUJITHA .D.V.	IV Sem - B	Pujitha
	MEGHANA KONDARAJU	IV Sem - B	Meghana
	KEERTHI .M	IV Sem - B	Keerthi
	SAION ROY	IV Sem - B	Saion Roy
	RAHUL .M.	IV Sem - B	Rahul

Guest Lecture on "RNA in gene expression"

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Sl. No.	Student name	Class	Signature
	NISARGA . B	IV Sem - A	Nisarga B
	NAYANASHREE . S . N .	IV Sem - A	Nayana
	ANANYA . G .	IV Sem - A	Ananya G
	DHANUSHREE . N . K .	IV Sem - A	Dhanushree
	GOWTHAMI . M .	IV Sem - A	Gowthami
	DEEPTANGI . P .	IV Sem - A	Deepthangi
	N . ANUSHA DEVI	IV Sem - A	Anusha N
	FAIZA KHAN	IV Sem - A	Faiza
	NEJUMA . N .	IV Sem - A	Nejuma N
	NIHA FATHIMA .	IV Sem - A	Niha
	ALIYA KHAN	IV Sem - A	Aliya Khan
	GURUPREET KAUR	IV Sem - A	Gurupreet
	CHAITANYA . M .	IV Sem - A	Chaitanya
	ARPITHA . S . DANDIN .	IV Sem - A	Arpitha S
	KAVYA . M .	IV sem - A	Kavya
	KARTHIK . U .	IV sem - A	Karthik
	AFRAN PASHA	IV Sem - A	Afran P
	CHIRAG . U . K .	IV Sem - A	Chirag
	B . B . MADHU MEGHANA	IV Sem - A	B B Madhu Meghana
	MUKTHA SHREE . K . R .	IV Sem - A	Muktha K R
	AKSHITHA . E .	IV Sem - A	Akshitha E
	GOPIKA . G .	IV Sem - A	Gopika G
	NANDINI . R .	IV Sem - A	Nandini R
	DHANYA . REDDY . G . P .	IV Sem A	Dhanya Reddy
	ALAINA KHAN	IV Sem A	Alaina
	AATHIRA SUNIL	IV Sem A	Aathira S

Guest Lecture on "RNA in gene expression"

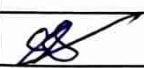
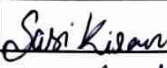
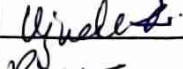

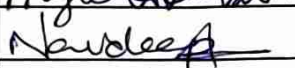

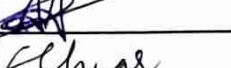

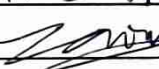


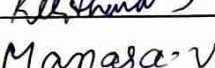
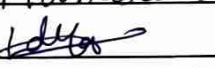


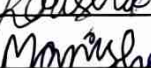
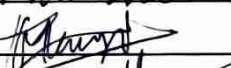

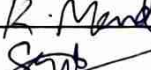






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Students' Attendance

Sl. No.	Student name	Class	Signature
	SAHASRAMSHU	II nd Sem -	
	SASI KIRAN	II Sem -	
	UJWAL R.	II Sem -	
	PREETHAM	II Sem -	
	PRAJWAL AKAMBAR	II Sem -	
	BEESAM NAVDEEP	II Sem -	
	KHIZAV HUSSAIN	II Sem -	
	ASHMITH ASOK	II Sem -	
	ESHWAR K.M.	II Sem -	
	HAESA H.S.	II Sem -	
	MOHAMMED ZAIN	II Sem -	
	JEZREEL JOHN JOHNSON	II SEM - B	
	DEEKSHA D. KASHYAP	II Sem - C	
	KEERTHANA S.	II Sem - C	
	MANASA V.	II Sem - C	
	LAYA N.	II Sem - C	
	RAMYA N. MURTHY	II Sem - C	
	AINRILA	II Sem - C	
	KOUSHIK	II Sem - C	
	MANISHA KUMARI	II Sem - C	
	MANSI SINGH	II Sem - C	
	SNIGHDHA AMARNADH	II Sem - C	
	MANDARA K.	II Sem - C	
	SRI LALITHA HIRANMAI	II Sem - B	
	M.N. BHAVANA	II Sem - B	
	G. BABY TEJASWINT	II Sem - B	

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Guest Lecture on “RNA in gene expression”

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[illegible]

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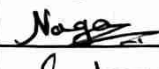
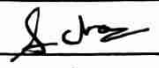

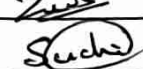

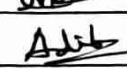


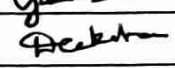
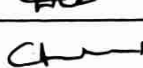
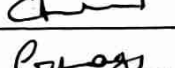
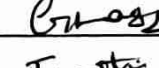
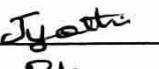
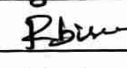
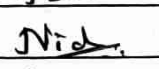
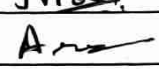
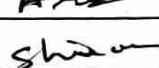
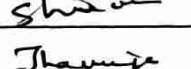
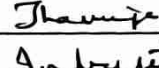
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Students' Attendance

Sl. No.	Student name	Class	Signature
	G.Y. SAI PRATHYOSHA	IV Sem - C	
	B. NAGA TRIVENT	IV Sem - C	
	SHIPLY CHANDRA	IV Sem - C	
	ZULEKHA HAESA AKHTAR	IV Sem - C	
	SUCHITA	IV Sem - C	
	P.L. SAI NIREEKSHA	IV Sem C	
	ADITI. C. VEREKUPPT	IV Sem C	
	SATWANA. P.	IV Sem C	
	GAURI KRISHNA	IV Sem C	
	DEEKSHA. N.	IV Sem C	
	CHIRALI.	IV Sem C	
	G. NAGA KEERTHI	IV Sem C	
	JYOTHISHMITHA	IV Sem C	
	RITUJA BISWAS	IV Sem - C	
	NIDHI VERMA.	IV Sem - C	
	AARUSHI K. P.	IV Sem - C	
	SHIVANI. B. N.	IV Sem - C	
	THANUJA. V. S.	IV Sem - C	
	INDREJEET. J.	IV Sem C	
	ARYAN RAGHU.	IV Sem c	

Principal,

M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054