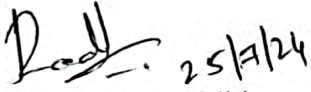
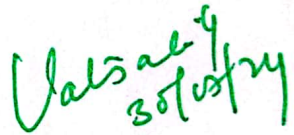


CIRCULAR

This is to inform the HOD's and the faculty members of the Lifesciences departments that Dept of Biotechnology & Genetics is hosting a Guest lecture for I Sem BSc life sciences students on 18th July at 10:00 AM in Kuvempu seminar hall. The guest speaker is Dr Gokul Kesavan, Founder-Vertex, Research and Education, and the title of the talk is "SCIENCE TO CURE: The Path from Sickle Cell Disease to CRISPR Breakthroughs". It is compulsory for all the faculties of life sciences who are engaging the I Sem to attend the guest lecture.


Dr. Radha Dayanidhi
HOD – Biotechnology & Genetics

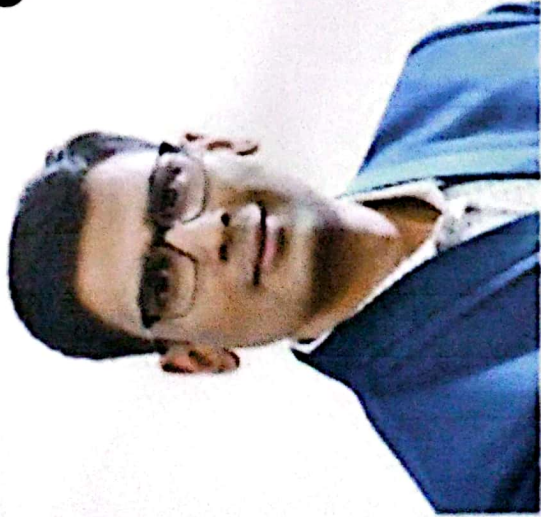

Dr. Vatsala G
Principal
Principal
M.S.Ramaiah College of Arts, Science &
Commerce-Autonomous
MSRIT POST, MSR Nagar
Bengaluru - 560 054

ABOUT THE GUEST LECTURE 'Science to Cure: The Path from Sickle Cell Disease to CRISPR Breakthroughs'

Join us to explore the journey from the discovery of sickle cell disease (SCD) in the 1950s to the latest CRISPR breakthroughs. Despite extensive research, efficient treatments for SCD remain elusive. However, CRISPR-based gene therapies, born from studies of bacterial immune systems, offer new hope.

OUTCOMES

- It deepens the understanding of SCD and gene therapy while igniting your passion for scientific research and its potential to solve societal problems.
- Discover genetic research's past, present, and future, and envision a world transformed by science.



Dr Gokul Kesavan

PATRONS

Dr. M.R. Jayaram, Chairman, GEF
Sr. M.R. Janakiram, Director, GEF
Sri M.R. Kodandaram, Director, GEF
Sri B.S. Ramaprasad, CE, GEF
Sri G. Ramachandra, COF, GEF
Dr. Vatsala G. Principal, MSRCASC
Dr. Anandappa Iramukhadavar,
Registrar (Academics)
Prof. Suresh J. Deputy Registrar,
Admin & Evaluation
Prof. Jayarama B.S., Vice Principal
Prof. Pushpa H., Vice Principal

**M S Ramaiah College of Arts, Science,
and Commerce-
Autonomous**

Department of Biotechnology and Genetics
in association with
Vertex Research and Education
Organizes

**SCIENCE TO CURE: The Path from Sickle Cell
Disease to CRISPR Breakthroughs**

July 18, 2024, 10 AM - 11 AM

Venue: Kuvempu Seminar Hall
ORGANIZING COMMITTEE

Dr. Lakshmikanth R.N. Associate Prof &
Head (PG)

Dr. Channarayappa. Professor

Dr. Ramesha N. Professor

Dr. D. R. Jayashree, Professor

Dr. Ramakrishnaiah T.N., Assistant
Professor

Dr. Radha Dayanidhi, Assistant Professor
Head(UG)

Dr. Vinutha M, Assistant Professor

Ms. Beulah Angel, Assistant Professor

Dr. Pramod Prakash Desai, Assistant
Professor

Dr. PavithraKumari H.G. Assistant
Professor

Dr. Muktha H, Assistant Professor

Dr. Satish Babu, Assistant Professor

Dr. Vinay Hegde, Assistant Professor

Department of Biotechnology

Report on the Guest Lecture: "Science to Cure: The Path from Sickle Cell Disease to CRISPR Breakthroughs"

Date and Venue:

July 18, 2024, at Kuvempu Seminar Hall

Audience:

First-semester life sciences students

Resource Person:

Dr. Gokul Kesavan, Founder and Scientist, Vertex Research and Education

Overview:

The orientation program for first-semester life sciences students at MSRCASC featured a guest lecture titled "Science to Cure: The Path from Sickle Cell Disease to CRISPR Breakthroughs." The lecture was delivered by Dr. Gokul Kesavan, a scientist and the founder of Vertex Research and Education. The session aimed to ignite curiosity among the students and to demonstrate the unexpected pathways research can take, ultimately leading to significant scientific breakthroughs. The talk was divided into two parts:

Part 1: History and Characteristics of Sickle Cell Disease (SCD)

Dr. Kesavan began by discussing the history of Sickle Cell Disease, noting that the defective haemoglobin structure responsible for SCD was identified as early as 1951. Despite this early discovery, effective therapies for SCD remain elusive, highlighting the complexities and challenges in medical research and treatment development.

Part 2: From Bacterial Defense Mechanisms to CRISPR Breakthroughs

The seminar then transitioned to the groundbreaking development of CRISPR-based gene editing. Dr. Kesavan explained how curiosity-driven research into bacterial defense mechanisms against viruses led to the discovery of CRISPR. This revolutionary gene-editing technology has since opened new avenues in genetic research and therapy.

Dr. Kesavan emphasized that SCD was the first disease to be targeted using CRISPR technology, with numerous clinical trials currently underway. These trials aim to treat SCD and other genetic diseases, showcasing the potential of CRISPR to transform medical science and patient care.

Interactive Session:

The students demonstrated great enthusiasm and curiosity, asking insightful questions about the potential drawbacks and long-term consequences of CRISPR-based therapies. The discussions also covered broader topics such as genetically modified organisms (GMOs) and transgenics, further enriching the seminar experience.

Conclusion:

The seminar was a resounding success, effectively engaging the students and exposing them to the transformative power of scientific research. The presence of faculty members, including the Heads of all life science departments, underscored the importance of the guest lecture and added to its significance.

Acknowledgments:

The orientation program organizers and the Biotechnology & Genetics department at MSRCASC extend their gratitude to Dr. Gokul Kesavan for his enlightening presentation and valuable insights. The seminar has undoubtedly inspired the students to pursue their scientific endeavors with curiosity and determination.



Glimpses of the guest lecture "Science to Cure: The Path from Sickle Cell Disease to CRISPR Breakthroughs" by Dr. Gokul Kesavan, Founder and Scientist, Vertex Research and Education.

Vatkala G
Principal
M.S.Ramaiah College of Arts, Science & Commerce-Autonomous
MSRIT POST, MSR Nagar
Bengaluru - 560 054

Sl No	Name	Reg No	Class/Sec	Signature
25	Kushi Bajrath	0256	Sec A BT ^{II} sem	
26	Chandni Gupta	0389	Sec A BT ^{II} sem	
27	Mohammed Zain	0208	Sec A BT ^{III} sem	
28	Arya Anur Kumar	0378	Sec B BT ^{III} sem	
29	Farheen Ahmed	U18EV2350149	Sec A I sem	
30	Ashigyan Baruah	U18EV2350169	Sec A I sem	A. Baruah
31	ARDHENDU SENGUPTA	U18EV2350159	Sec A I sem	A. Sengupta
32	Arantika Roy	U18EV2350014	Sec A I sem	Arantika Roy
32	Sayani Barua	U18EV2350030	Sec B I sem	
33	Smakshi Das	U18EV2350059	Sec C I sem	
34	Alfin. B. George	U18EV2350005	Sec A I sem	
35	Amal Krishna	U18EV2350158	Sec A I sem	
36	ARITEET KUMAR	U18EV2350045	Sec A I sem	
37	Navyatha Shree	U18EV2350004	Sec A I sem	
38	Agnishwar Das	U18EV2350109	Sec A I sem	
39	Yuvika Sarin	U18EV2350086	Sec C I sem	yuvika.
40	Sona Kumari S	U18EV235119	Sec B I sem	
41	Aishwarya	U18EV2350077	Sec C I sem	
42	Vaishnavi G. Hegde	U18EV2350085	Sec C I sem	vaishnavi
43	Shriya Geggchalli	U18EV2350089	Sec I sem	
44	Bidhi sa Das	U18EV2350078	Sec C I sem	Bidhi sa
45	Ganham Kumar Rup	U18EV2350083	Sec C I sem	
46	Anagha Pravin	U18EV2350187	Sec C I sem	Anagha
47	Arkaprabha Dev	U18EV2350131	Sec 'c' I sem	Arka
48	Bhulan Baravaraj	U18EV2350061	Sec C	Bhulan
49	C. Thanuja	U18EV2350187	Sec C	
50	Sushma	U18EV2350380	Sec C	
51	Riddhi C	U18EV2350138	Sec B I	
52	Sufyan Ahmed K	U18EV2350058	Sec C	
53	Tejashwini. RS	U18EV2350026	Sec B I sem	RS Tel
54	Sandhya S	U18EV2350173	Sec B I sem	
56	Keerthana S	U18EV2350145	Sec B I sem	
57	Yashaswini M	U18EV2350020	Sec B I sem	
58	Priyadarshini K	U18EV2350157	Sec B I sem	
59	Rakshitha B-R	U18EV2350117	Sec C I sem	Rakshitha
60	Sanjana L	U18EV2350151	Sec C I sem	Sanjana L
61	Harshith	U18EV2350039	-ve	

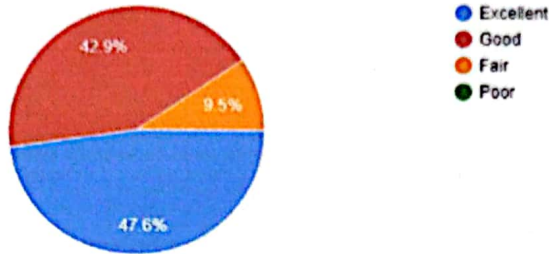
SI No	Name	Reg No	Class/Sec	Signature
62.	K.S Aishwarya	VL8EV23S0110	1st Sem BSc	K.S Aishwarya
63.	Karthik	VL8EV23S0016	- u -	Karthik
64.	Sahasra	VL8EV23S0388	- u -	Sahasra
65.	Manasa	VL8EV23S0135	- u -	Manasa
66.	Lisha.S	VL8EV23S0022	- u -	Lisha.S
67.	Makathuriga Gt	VL8EV23S0031	- u -	Makathuriga

Feedback analysis Of Gokul's lecture


Speaker was able to explain the topic clearly & used relevant examples

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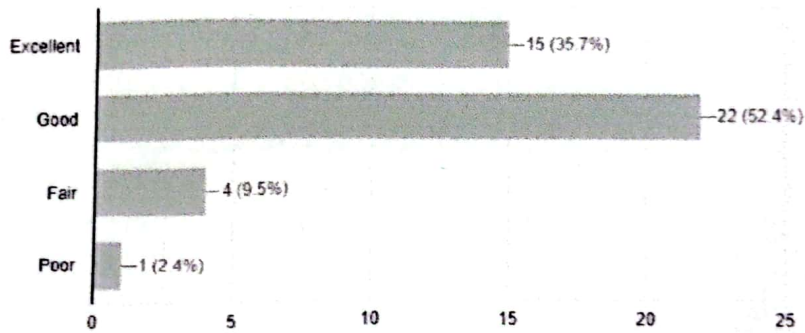
42 responses



Speaker was able to make the lecture interactive

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0 / 42 correct responses



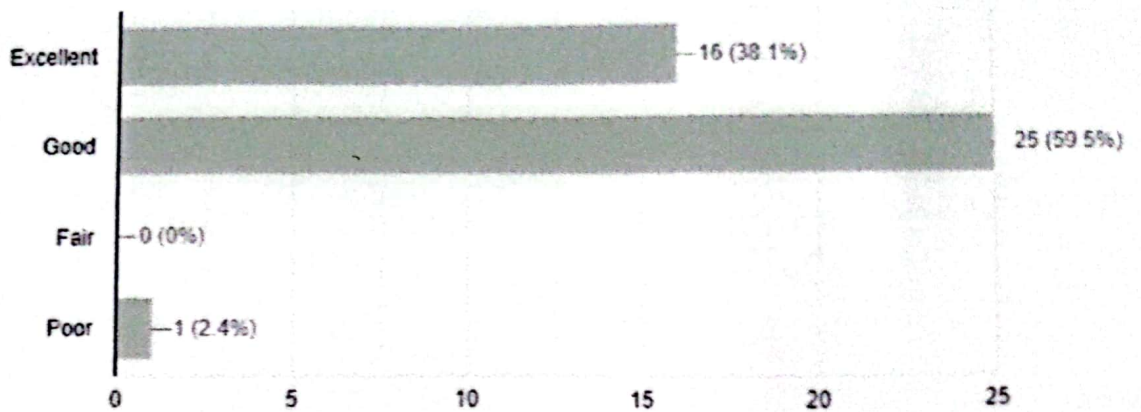
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Points presented in logical easy-to-follow sequence?

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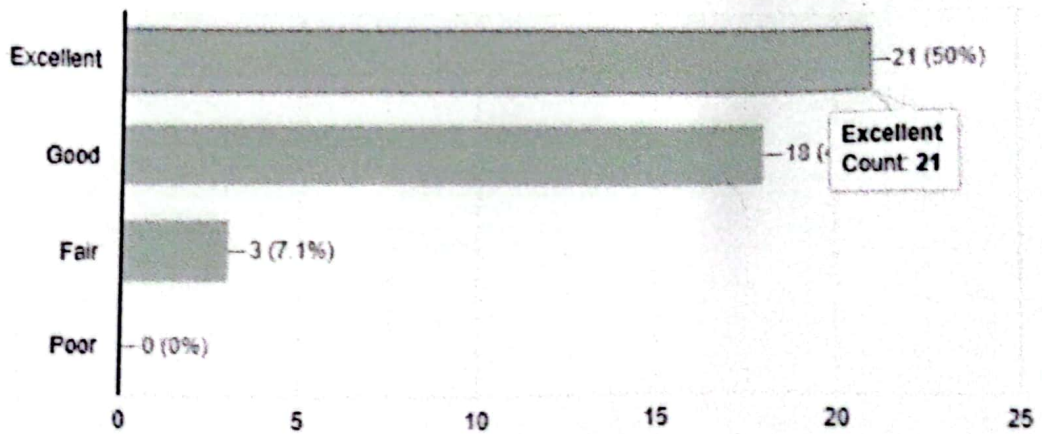
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Terminology and the degree of technical detail suitable to this audience?

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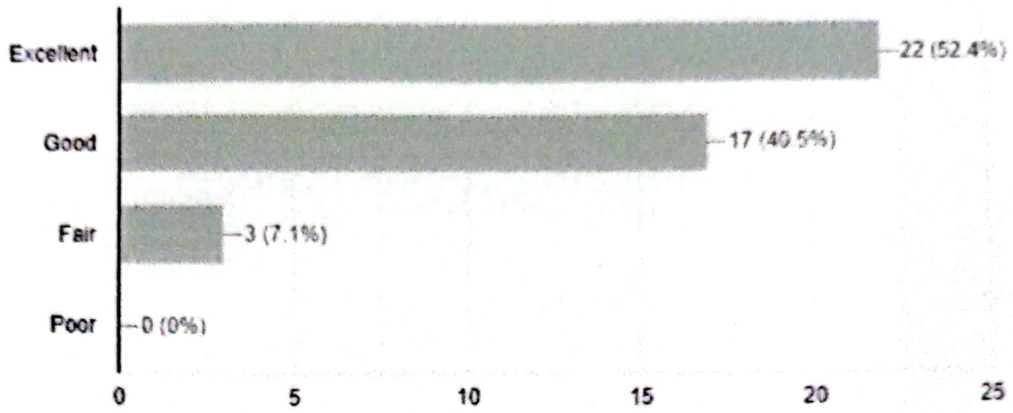
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Did the speaker answer the questions well, giving concise and informative replies?

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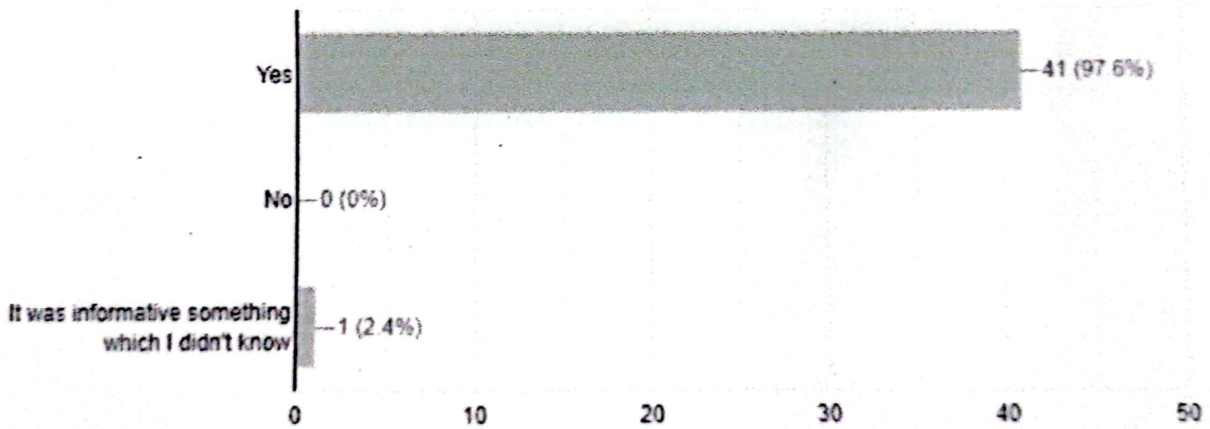
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Speaker was able to positively influence my views towards the topic

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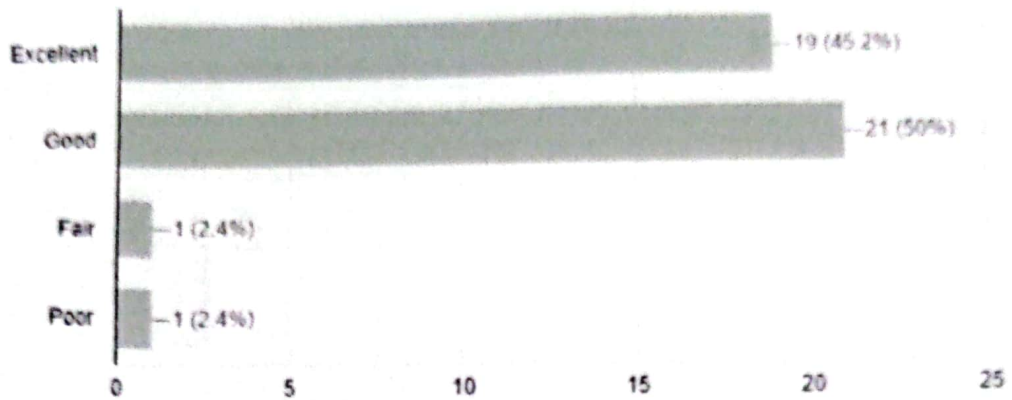
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Relevance of material to topic set:

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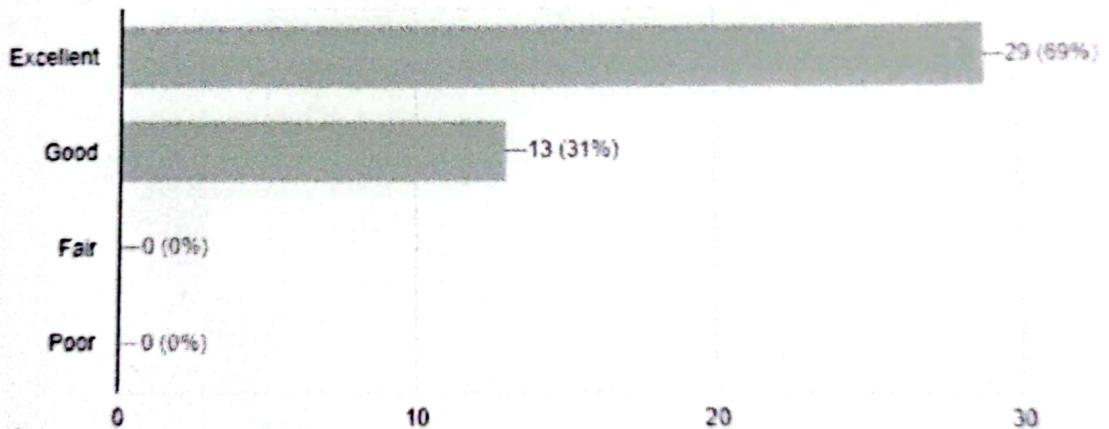
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The presentation indicates the speaker's knowledge and understanding of the subject was:

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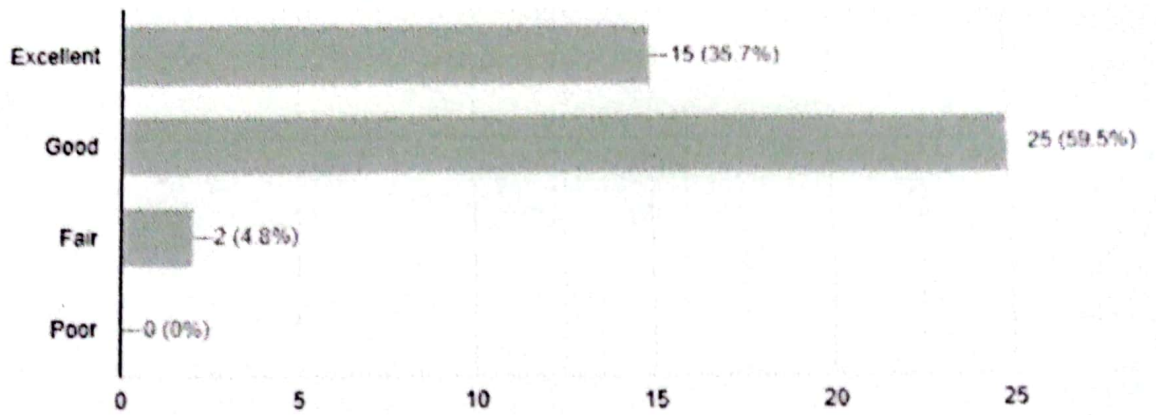
0 / 42 correct responses



Verbal communication

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0 / 42 correct responses



In near future, I would like to attend more lectures from the same Speaker

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0 / 42 correct responses

