



**Mahajana Education Society (R.)**

Education to Excel

**SBRR Mahajana First Grade College (Autonomous)**

Jayalakshmipuram, Mysuru - 570 012

Affiliated to University of Mysore & Accredited with 'A' Grade by NAAC  
College with Potential for Excellence

**An IQAC Initiative**

**Department of Biochemistry**

organises

**Workshop**

on

**"Analysing the Data of  
Enzyme Kinetics & Inhibition Studies"**

**Resource Person**

**Dr. Raghu Ram Achar**

Assistant Professor & Assistant Dean (IQAC)

Division of Biochemistry

School of Life Sciences, JSS AHER, Mysuru

**Date: 02.11.2023**

**Time: 10.30 AM**

**Venue : Business Lab**

**All are Cordially Invited**

***HoD & Staff***

Dept. of Biochemistry

***Dr. S R Ramesh***

Chief Executive Officer  
& Academic Advisor

***Dr. B.R. Jayakumari***

Principal

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Date: 02.11.2023

**ONE DAY WORKSHOP**

**“Analysing the Data of Enzyme Kinetics and Inhibition Studies”**

The Department of BtBM and IQAC organized One Day workshop on the topic “**Analysing the Data of Enzyme Kinetics and Inhibition Studies**” on 02<sup>nd</sup> November 2023 at Business Lab, SBRR Mahajana, First Grade College, Autonomous, Jayalakshmpuram, Mysuru.

The primary objective of the workshop was to provide participants with a comprehensive understanding of techniques and tools for analyzing data related to enzyme kinetics and inhibition studies. Also to develop skills in applying softwares in their future research work and career.

The speaker started the session by briefing up about enzymes – its nature, characteristics, specificity, activation energy change during attainment of transition state in enzyme catalysed reaction and basic catalytic mechanism.

He gave an overview of enzyme kinetics and its significance in biochemical studies and discussed on key parameters such as  $V_o$ , Michaelis-Menten constant ( $K_m$ ) and maximum velocity ( $V_{max}$ ).

He also gave insights on Enzyme Inhibition Studies: Different types of enzyme inhibitors and their mechanisms and Interpretation of inhibition kinetics and calculation of inhibition constants.

Analysis and interpretation of the practical data of enzyme case studies began followed by the theoretical session Students were engaged in practical exercises, working with real experimental data. This included the determination of kinetic parameters and analyzing inhibition patterns using sample datasets. Facilitators provided guidance, ensuring students gain practical skills in data analysis.

Students were trained to extract graphical data with auto calculations using formulas in Excel. They were thought how to analyse the data and plot graph for the data using excel spread sheet. An emphasis was placed on utilizing modern software tools for data interpretation.

Interactive sessions were conducted to address participant queries and facilitate discussions on challenges faced in enzyme kinetics experiments.

The key take home of workshop was that the students gained a thorough understanding of kinetic parameters, enabling them to interpret enzyme behavior accurately. By combining mathematical and biochemistry knowledge together the students are taken to an excel level in the field of life sciences.


The workshop on "Analyzing the Data of Enzyme Kinetics and Inhibition Studies" successfully provided participants with a comprehensive toolkit for executing, and analyzing enzyme kinetics experiments. The combination of theoretical knowledge and practical skills ensures that participants are well-equipped to contribute to advancements in biochemical research.

The resource person Dr. Ragu Ram Achar, Assistant professor and Assistant Dean (IQAC), Division of Biochemistry, School of Life Sciences, JSS AHER, Mysuru.


In the graceful presence of respected Principal Dr. B R Jayakumari, and CEO, Dr. S R Ramesh, welcome note was given by Smt.Madhuri.R, Guest faculty, Department of Biochemistry.

Introduction of Resource person was given by Smt. P.Radhika, Assistant Professor, Department of Biochemistry. The entire programme was hosted by Smt. P Radhika, Assistant Professor, Department of Biochemistry. About 44 students participated in the workshp.

The guest expressed his gratitude for giving an opportunity to deliver a lecture and for organising this programme. Finally, the programme was wined up by rendering vote of thanks by Ramya.V, HoD, Department of Biochemistry.

  
Head of the Department  
Head of the Department of Biochemistry  
SBRR Mahajana First Grade College  
(Autonomous)  
Jayalakshmpuram, Mysuru-570 017

  
IQAC Coordinator  
IQAC Coordinator  
SBRR Mahajana First Grade College  
(Autonomous)

  
Dr. B.R.Jayakumari  
(Principal)  
PRINCIPAL  
Smt Bhagyalakshamma Rattehalli Ramappa  
Jayalakshmpuram, MYSURU-570 017  
Mahajana First Grade College (Autonomous)  
Jayalakshmpuram, Mysuru-570 017

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**Attendance Sheet**

Name of the Department: **BIOCHEMISTRY**

Date: 02/11/2023

Nature of the programme: **Workshop on "Analysing the data of Enzyme Kinetics & Inhibition Studies"**

Time: 10:30 - 1:30 PM

Sl. No.	Name of the Student	Course	Semester	Section	Combination	Signature
1	Sulhash	↑	↑		BTBC	Sulhash
2	Pravali.R	↑	↑		BTBC	Pravali.R
3	Samith.H.S	↑	↑		BTBC	Samith
4	Vijesh.G	↑	↑		BTBC	Vijesh
5	KOWSHIK.S.R.	↑	↑		BT, BC	Kowshik
6	Karthik.D	↑	↑		BT, MB	Karthik
7	M.S. SAGAR	↑	↑		BT, BC	M.S.
8	Shishir Chandra.B	↑	↑		BT, BC	Shishir
9	Barudj	↑	↑		BCMB	Barudj
10	TEJA HUMAR.G.C	↑	↑		BT, BC	Teja G.C
11	ROHAN.S.V	↑	↑		BC, MB	Rohan
12	HEMACHANDRA.N.B	↑	↑		BC, MB	Hemachandra
13	Ganesh.M	↑	↑		BT, BC	Ganesh
14	Vishwas.P.	↑	↑		BCMB	Vishwas.P.
15	Manju.K	↑	↑		BTMB	Manju
16	Yashwanth S.V	↑	↑		BTMB	Yashwanth
17	Sowmya.L.	↑	↑		BTMB	Sowmya
18	Prakash Vittal	↑	↑		BTMB	Prakash
19	Akash	↑	↑		BTBC	Akash
20	JEEVA/KUMAR.P	↑	↑		BTMB	Jeeva
21	Chethan.P	↑	↑		BCMB	Chethan
22	Rahul.S	↑	↑		BCMB	Rahul.S
23	Sandhyashree B.S	↑	↑		BCMB	Sandhyashree
24	Zaira Amina	↑	↑		BTBC	Zaira
25	Akshathe.M	↑	↑		BTMB	Akshathe

26 Total No. of students attended - (26)

Signature of the HoD  
Name: - RAMYA.V

Mahajana First Grade College (Autonomous)  
Jayalakshimpuram, Mysore - 570 012

Signature of the Organising Secretary  
Name: - RAMYA.V  
Head of the Department of Biochemistry  
SBRR Mahajana First Grade College  
(Autonomous)

Signature of the Organising Secretary

Received  
3/11/23

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**Attendance Sheet**

Date: 02/11/2023

Time: 10:30 - 1:30 PM

Name of the Department: **BIOCHEMISTRY**  
Nature of the programme: **Workshop on "Analysing the role of Enzyme Kinetics & Inhibition Studies"**

Sl. No.	Name of the Student	Course	Semester	Section	Combination	Signature
1	Likhitha .S	↑	↑		BSc (BMB)	Likhitha
2	Lakshmi B.S				BMB	Lakshmi
3	Jahnavi .M.S				BSc (BLBC)	Jahnavi
4	JAVANIYA .N				B+MB	Ashwini
5	Ashwini .M.S				B+MB	Ashwini
6	Meghabai .M				B+MB	Kecattana
7	Kecattana .M.S				B+MB	Kecattana
8	Jenita .P				B+MB	Shanaya
9	Shanaya .K.C				B+BC	Shanaya
10	Sinchana .H.R				BMB	Sinchana
11	Sushmitha .S				BMB	Sushmitha
12	Priya .Devora Hegde				BMB	Priya
13	Harshitha .B.K	S			BMB	Harshitha
14	Qistari .B.B	S			BMB	Qistari
15	Akshatha .G	S			B+MB	Akshatha
16	Emmanuel Janet				B+MB	Emmanuel Janet
17	Poojitra				B+BC	Poojitra
18	Bhoomikaraj .P.				B+MB	Bhoomikaraj
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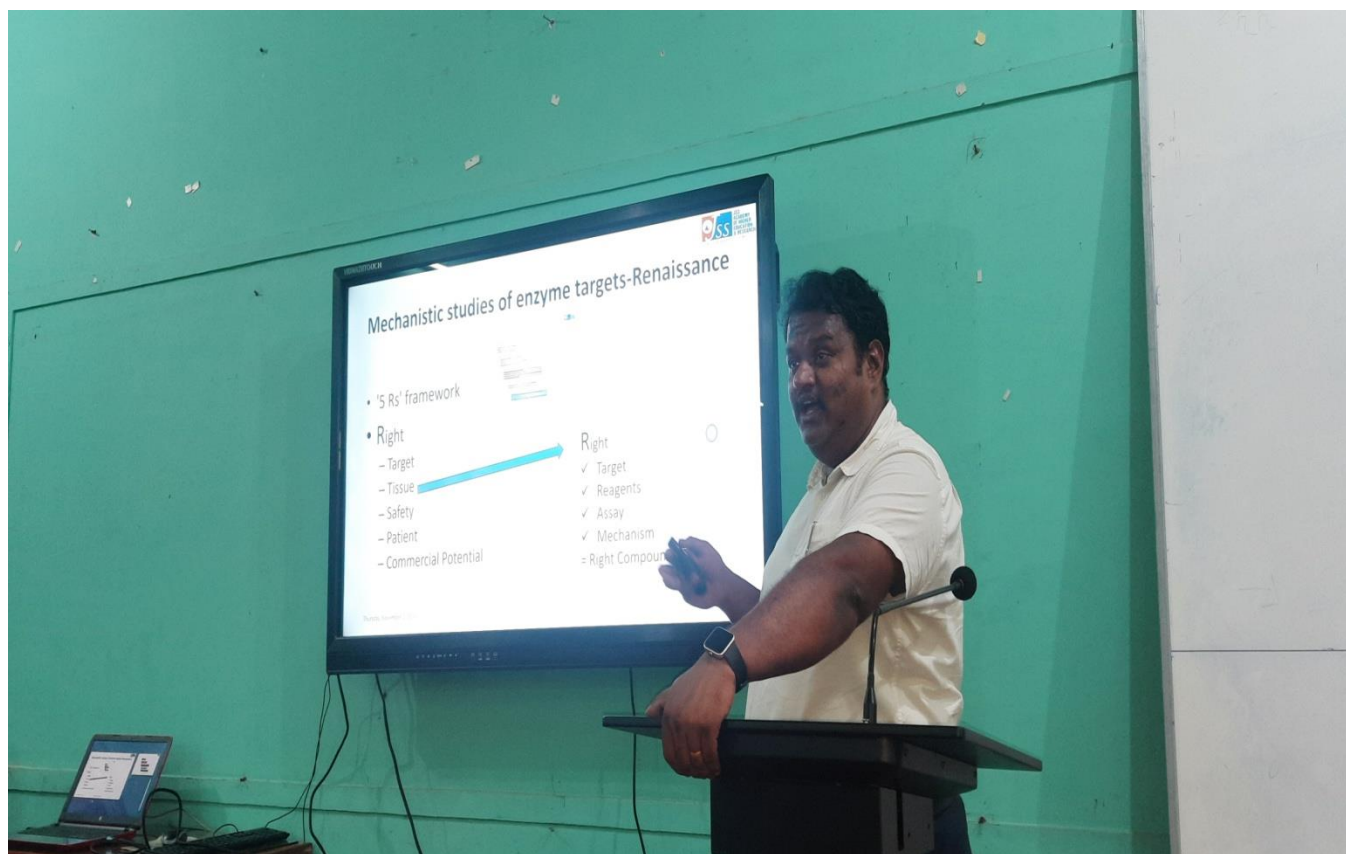
Total No. of students attended - (18)

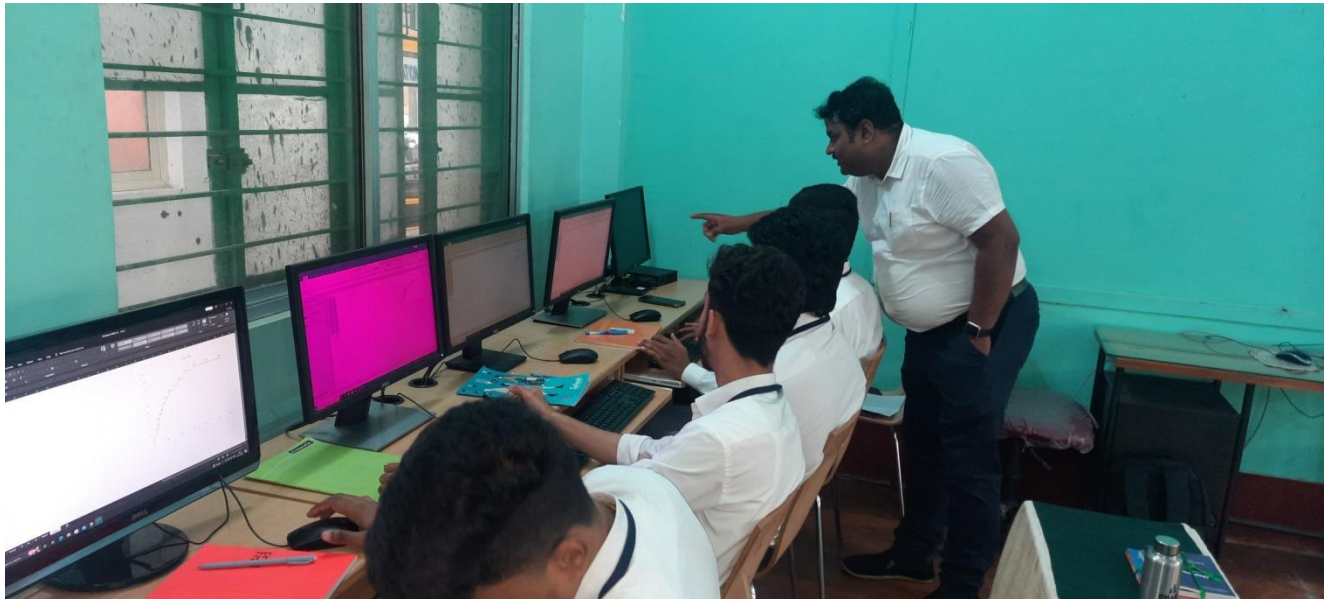
Signature of the HoD -  
Name: **RAMYA .V**

**Ramya**  
Head of the Department of Biochemistry  
SBRR Mahajana First Grade College  
(Autonomous)  
Jayalakashmipuram, Mysore-570 012

**P. Pallika**  
Organising Secretary Signature

## WORKSHOP ON “Analysing the Data of Enzyme Kinetics & Inhibition Studies”









# ಕಿಣ್ವದ ಚಲನಶಾಸ್ತ್ರ, ಪ್ರತಿಬಂಧಕ ಅಧ್ಯಯನ ಕಾರ್ಯಾಗಾರ



• ಕನ್ನಡಪ್ರಭ ವಾರ್ತೆ ಮೈಸೂರು

ಜೈವಿಕ ರಸಾಯನಶಾಸ್ತ್ರ ವಿಭಾಗ ಮತ್ತು ಐಕ್ಯೋಎಸಿ ಸಹಯೋಗದಲ್ಲಿ ಕಿಣ್ವದ ಚಲನಶಾಸ್ತ್ರ ಮತ್ತು ಪ್ರತಿಬಂಧಕ ಅಧ್ಯಯನಗಳ ದೇಟಾವನ್ನು ವಿಶ್ಲೇಷಿಸುವ ಕಾರ್ಯಾಗಾರವನ್ನು ನಗರದ ಮಹಾಜನ ಪ್ರಥಮ ದರ್ಜೆ ಕಾಲೇಜಿನಲ್ಲಿ

ಆಯೋಜಿಸಲಾಗಿತ್ತು.

ಜೀಎಸ್‌ಎಸ್ ಎಎಚ್‌ಇಆರ್ ಜೀವರಸಾಯನಶಾಸ್ತ್ರ ವಿಭಾಗ, ಸ್ಕೂಲ್ ಆಫ್ ಲೈಫ್ ಸೈನ್ಸ್ ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕ ಮತ್ತು ಸಹಾಯಕ ಡೀನ್ ಡಾ. ರಘುರಾಮ್ ಆಚಾರ್ ಮಾತನಾಡಿ, ಕಿಣ್ವಗಳು, ಅದರ ಸ್ವಾಭಾವ

ಗುಣಲಕ್ಷಣಗಳು, ನಿರ್ದಿಷ್ಟತೆ ಮತ್ತು ಕಾರ್ಯವಿಧಾನದ ಬಗ್ಗೆ ವಿವರಿಸಿದರು.

ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಬಿ.ಆರ್. ಜಯಕುಮಾರಿ, ಸಿಇಓ ಡಾ.ಎಸ್.ಆರ್. ರಮೇಶ್, ಜೈವಿಕರಸಾಯನಶಾಸ್ತ್ರಸಹಾಯಕಪ್ರಾಧ್ಯಾಪಕರಾದ ಆರ್. ಮಾಧುರಿ, ಪಿ. ರಾಧಿಕ ಇದ್ದರು.

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