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REF: MSRCASC/MB/2023-2024/

Date: 28.05.2024

CIRCULAR

DEPARTMENT OF MICROBIOLOGY

Guest Lecture on: "Diagnostic Enzymology"

This is to inform all II & III year BSc students of M. S. Ramaiah College of Arts, Science and Commerce-Autonomous that Department of Microbiology under DBT Star College Scheme is organizing a guest lecture on the topic "Diagnostic Enzymology" by Dr. Nagaraj M R, Associate Professor, Department of Clinical Biochemistry, East Point College of Medical Sciences and Research Centre, Bangalore on 1st June 2024.

Attendance is mandatory for the students.

Time: 03:00 pm to 04.30pm

Venue: Sir M Visveshwaraiah Auditorium.

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Department of Microbiology Organizes Guest Lecture On DIAGNOSTIC ENZYMOLOGY

Dr. Nagaraj MR Associate Professor, Department of Clinical Biochemistry, East Point College of Medical Sciences

and Research Centre, Bangalore



Objectives:

- The primary objective of a guest lecture is to share knowledge, expertise, or insights on a topic.
- To provide valuable information to the audience, enhancing their understanding of the topic

Outcome:

- The lecture will encourage critical thinking and analytical skills among students
- Motivate students to explore research in future and pursue related interests.

Date: 1st June 2024 Time: 3:00pm to 4:30pm

Venue: Visveshwaraiah Auditorium

Mrs. Soumya S Shanbhag Head of the Department & Coordinator

Dr. Pushpa H Vice Principal Dr. Vatsala G Principal



DEPARTMENT OF MICROBIOLOGY

REPORT ON GUEST LECTURE

Title: Guest Lecture on "Diagnostic Enzymology"

Date: 1st June 2024

Venue: Visveswaraiah Auditorium

Participants: II & III Year BSc students & MSc MB

Resource Persons:

Dr. Nagaraj MK

Associate Professor, Department of Clinical Biochemistry, East Point College of Medical Sciences and Research Centre, Bangalore

No. of Participants: 109

Objective:

- The primary objective of a guest lecture is to share knowledge, expertise, or insights on a topic.
- Participants may acquire practical skills in conducting enzyme assays and interpreting results.
- Through case studies and discussions, attendees can enhance their ability to critically evaluate diagnostic enzymology methods and their clinical significance.
- Participants may gain insight into emerging trends and technologies in diagnostic enzymology, fostering an awareness of potential future developments in the field.
- Attendees should be able to apply their knowledge of diagnostic enzymology to real-world clinical scenarios, aiding in the diagnosis, prognosis, and monitoring of diseases.

On 1st June 2024, Department of Microbiology, MSRCASC hosted a guest lecture on "Diagnostic Enzymology" delivered by Nagaraja MR, an esteemed professional with over a 2 decades of experience in the field of biochemistry and Associate Professor at East Point College of Medical Sciences and Research Center, Bangalore, for II and III-year BSc students and MSc



Microbiology students. 109 students from BSc and MSc participated in the event. The lecture, held at Visveswaraiah auditorium, was part of a Guest Lecture Series and aimed at enhancing the understanding of students with basic diagnostic importance of enzymes and significance of these enzyme testing for diagnosis of diseases. The lecture was started by providing an overview of diagnostic enzymes, emphasizing its role in analysing the diagnosis of diseases. The core of the lecture focused on diagnostic enzymology, which involves the use of enzyme measurements in clinical diagnostics to detect, quantify, and monitor various diseases. Dr. Nagaraja highlighted how enzymatic assays are crucial for diagnosing conditions such as myocardial infarction, liver diseases, Pancreatic disorders, and certain genetic disorders. The lecture covered several key enzymes used in diagnostics:

ALT (Alanine Transaminase) and Aspartate Transaminase (AST)

Creatine Kinase (CK)

Alkaline Phosphatase (ALP)

Amylase and Lipase]

LDH (Lactate Dehydrogenase) etc.

He elucidated the principles behind various diagnostic techniques and on new biomarkers developed for diagnosis.

The guest lecture had a significant impact on students' appreciation for diagnostic enzymology as a powerful analytical tool. It deepened their understanding of the underlying principles and broadened their awareness of the diverse applications of enzymes in diagnosis of diseases in pathology laboratory settings.

We extend our sincere gratitude to Dr. Nagaraja MR for his informative and engaging lecture. Special thanks to all students and faculty members who participated in making the guest lecture a memorable experience.

Outcome:

Students are empowered with the knowledge, skills, and confidence needed to utilize enzymatic assays effectively in diagnostic settings and contribute to advancements in healthcare.

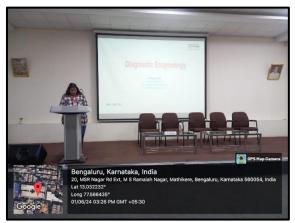
Lecture inspired students to continue their learning and exploration of diagnostic enzymology and enzyme kinetics through further study, research, or professional development activities.



Glimpse of the event















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