

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

Interactive Session

on

- Combatting unseen threats

Resource Person

Dr. Naveen Y P, M.Sc, Ph.D

Assistant Professor

Department of Biochemistry

Adichunchanagiri School of Natural Sciences

Adichunchanagiri University

Date: 02.04.2024

Time: 11.00 AM

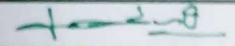
Venue: AVC-II

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: 02.04.2024

Department of Biochemistry A Report on One-Day Interactive Session

"Unveiling the Power of the Immune System- Combatting Unseen Threats"

An Interactive Session on the topic "Unveiling the Power of the Immune System - Combatting Unseen Threats" was organized by Department of Biochemistry and IQAC, SBRR Mahajana, First Grade College (Autonomous), Jayalakshmipuram, Mysuru-12 on April 2nd 2024 at 11.00 am in AVC-II, SBRR Mahajana First Grade College (Autonomous), Jayalakshmipuram, Mysuru-12

The primary objective of organizing the Interactive session was to provide the students with a comprehensive knowledge of the Immune System in combatting various diseases and also to expand the knowledge about the immune system and its role in resistance towards infection and various toxins.

The resource person Dr. Naveen Y P started the session by introducing the term Immunology and overviewed the immune system by giving insights on various cells like White Blood Cells (Leukocytes) and their types, tissues, organs (Lymphoid Organs) and antibodies which work together to recognize and neutralize harmful invaders.

He briefed about various Diseases caused by pathogens like bacteria, viruses, fungi, parasites and their entry into the body. Then he delves into the intricate workings of the immune system, exploring its components, mechanisms, and the sophisticated strategies it employs to safeguard our health.

He also highlighted the dual arms of innate and adaptive immunity and explained how both of these subsystems are closely linked and work together when; a germ or harmful substance triggers an immune response. Further the speaker emphasized about how the adaptive immune system is constantly learning and adapting so that it can fight bacteria or viruses that change over time. He gave insights on Phagocytes, Natural killer cells, inflammatory responses, T- cells, Cytotoxic T-cells, T-helper cells, B-cells and Memory cells. He also addressed the challenges that immune system faces and the consequences that arise when it malfunctions.

The speaker further threw light on the complement system cascade /pathway - its phases, functions, its role in innate and adaptive immune system and how it helps the antibodies and phagocytic cells to clear pathogens from an organism. Then, the resource person provided guidance; ensuring students gain the importance of maintaining immune health and supporting the crucial role

of vaccines in disease prevention through continuous research and advancements in immunology. An emphasis was placed on the research field for uncovering new insights into immune function and developing advanced therapeutic strategies to combat emerging infectious diseases.

He highlighted the role of vaccines in harnessing the immune system's power to prevent infectious diseases. He briefed on Auto-immune disorders.

The key takeaway of the interactive session was the thorough understanding of immunological aspects of life, enabling them to excel in the field of life sciences. After the lecture, the session was open for discussion during which students actively interacted by asking questions.

The speaker addressed participant queries and gave inputs on Memory cell formation, Advances in immunotherapy for cancer treatment and Innovations in vaccine development. Overall, the students gained valuable insights into the intricate workings of the body's defence system.

The session was very informative ensuring that the participants are well-equipped to contribute to advancements in biochemical research.

The resource person of the interactive session was Dr. Naveen Y P, Assistant Professor, Department of Biochemistry, Adichunchunagiri School of Natural Sciences, Adichunchunagiri University.

The dias was enlightened with the graceful presence of respected Principal Dr B R Jayakumari, and CEO & Academic advisor Dr.S R Ramesh and Smt. Ramya V, Head of the Department. The session started at 10.30 am with a welcome note given by Smt. P Radhika, Assistant Professor, Department of Biochemistry. The introduction of the resource person was given by Smt: Madhuri Guest Lecturer, Department of Biochemistry. The entire programme was hosted by Smt. Radhika, Assistant Professor, Department of Biochemistry. The session was very interactive and informative. Around 70 students participated and benefited from this session.

The guest expressed his gratitude for allowing delivering a lecture and for organizing this programme. Finally, the programme was winded up around 1.30 pm by rendering a vote of thanks by Smt Ramya. V, HoD, Department of Biochemistry, SBRR MFGC Autonomous, Mysuru-12.

Dr. B. R. Jayakumari

IQAC Coordinator PRINCIPAL

Smt. Bhagyalakshmamma Rattehalli Ragbar Mahajana First Grade College Mahajana First Grade College (Autonomous) (Autonomous)

Javalakshmipuram, Mysuru-570 012 Valakshmipuram, MYSURU-570 012

Head of the Department

Head of the Department of Bruchemistra SBRR Mahaiana Pirst Grade College

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Jayalakshmipuram. Mysuru-570 018

SBRR MAHAJANA FIRST GRADE COLLEGE (Autonomous)

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Total No. of students attended (19)
Signature of the HoD

Organising Secretary Signature

Name:

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Total No. of students attended (25)

Signature of the HoD

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Organising Secretary Signature

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Total No. of students attended (15)

Signature of the HoD

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Name:

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Organising Secretary Signature

Head of the Department of Biochemistry SBRR Mahaiana First Grade Collega :Autonomous)

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Organising Secretary Signature

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"Unveiling the Power of the Immune System-Combatting Unseen Threats"







