

Andhra Christian College::Guntur

Department of Zoology

Seminar Report

Topic: Immune System

Date: 07-02-2023

Time: 11:00 a.m.

Venue: Department of Zoology, Andhra Christian College, Guntur

Participants: B. Sc. (CBZ) Students

Resource Person: Prof. K. Suneetha, Department of Zoology, Acharya Nagarjuna University, Guntur

Faculty of the Department Present:

- Mr. B. Prabhakar, Head
- Dr. B. D. J. Satyalatha, Senior Lecturer
- Mr. B. Charles Wesley, Lecturer
- Mrs. T. Kanakavalli, Lecturer
- Mrs. P. Mary Josfin, Lecturer

Objectives of the Seminar

1. **Understanding the Immune System:** To provide students with a fundamental understanding of the immune system and its components.
2. **Mechanisms of Immunity:** To explain the various mechanisms of immunity, including innate and adaptive immunity.
3. **Immune Response:** To discuss the body's response to pathogens and the role of different immune cells.
4. **Clinical Relevance:** To introduce the clinical aspects of immunology, such as vaccines, allergies, and autoimmune diseases.
5. **Academic Development:** To enhance students' knowledge of immunology, encouraging further study and research in the field.

Detailed Report

The seminar on the "Immune System" was conducted on 07-02-2023 at 11:00 a.m. in the Department of Zoology, Andhra Christian College, Guntur. It was organized for B. Sc. (CBZ) students to deepen their understanding of the immune system's structure, function, and significance.

Welcome and Introduction: Mr. B. Prabhakar, Head of the Department of Zoology, welcomed the gathering and introduced the resource person, Prof. K. Suneetha. He highlighted Prof. Suneetha's extensive experience and contributions to the field of zoology, particularly in immunology.

Session by Prof. K. Suneetha: Prof. K. Suneetha began her presentation by outlining the basic components of the immune system. She covered the following key topics:

1. **Components of the Immune System:**

Innate Immunity: The first line of defense, including physical barriers, phagocytic cells, and the complement system.

- Adaptive Immunity:** The specific immune response involving T cells, B cells, and antibodies.
- 2. Mechanisms of Immune Response:**
Humoral Immunity: The role of B cells and antibodies in neutralizing pathogens.
Cell-Mediated Immunity: The function of T cells in targeting infected or abnormal cells.
Cytokines and Chemokines: Their role in regulating immune responses.
 - 3. Immunological Memory:**
The concept of memory cells and how they provide long-lasting protection against previously encountered pathogens.
 - 4. Clinical Relevance:**
Vaccination: How vaccines work to stimulate an immune response and provide immunity.
Allergies and Hypersensitivity: The immune system's overreaction to harmless substances.
Autoimmune Diseases: Conditions where the immune system mistakenly attacks the body's own tissues.

Throughout her presentation, Prof. Suneetha used diagrams, flowcharts, and case studies to illustrate the complex processes of the immune system. Her engaging style and clear explanations made the subject accessible to the students.

Interactive Session: The seminar included an interactive Q&A session where students asked questions related to immune system disorders, the development of vaccines, and the impact of lifestyle on immunity. Prof. Suneetha provided detailed answers, encouraging students to explore these topics further.

Conclusion: The seminar concluded with a vote of thanks by Mr. B. Charlew Wesley, Lecturer. He expressed his gratitude to Prof. Suneetha for her insightful presentation and to the students for their active participation.

Outcomes of the Seminar

- 1. Enhanced Knowledge:** Students gained a thorough understanding of the immune system, its components, and its functions.
- 2. Clinical Awareness:** The seminar provided students with insights into the clinical relevance of immunology, including the importance of vaccines and the nature of autoimmune diseases.
- 3. Critical Thinking:** The interactive session fostered critical thinking, with students engaging deeply with the material.
- 4. Academic Growth:** The seminar stimulated interest in immunology, encouraging students to consider further studies and research in this vital area of biology.
- 5. Practical Understanding:** The use of case studies and real-world examples helped students connect theoretical knowledge with practical applications.

The seminar was a great success, fulfilling its objectives and providing valuable insights to the students. The Department of Zoology looks forward to hosting more such educational events in the future.



Prof. K. Suneetha delivering her lecture



List of participants

S. No.	Name of the Student	Roll No.	Signature
1.	P. Malathi	902	P. Malathi
2.	Ch. Vedasri	904	ch.vedasri
3.	T. Prasanna	905	T. Prasanna
4.	R. ommath.	908	R. ommath.
5.	O. Keerthi	910	O. Keerthi
6.	Ch. Ammulu	912	ch. ammulu
7.	S. Subhosh.	914	S. Subhosh.
8.	R. gopi	903	R. gopi
9.	Ch. Nagaraju	915	Ch. Nagaraju
10.	Y. Swathi	951	Y. Swathi
11.	I. Shreya	921	I. Shreya
12.	B. kavya.	911	B. kavya
13.	R. Sathish Kumar	918	R. Sathish Kumar
14.	B. Ramu.	913	B. Ramu
15.	Chi Charan.	926	Chi Charan
16.	V. Dileep.	931	V. Dileep
17.	T. Jyothi	912	T. Jyothi
18.	L. Priyanka.	923	L. Priyanka

B. Prabhakar.
H.O.D. Dep of Zoology.
Coordinator
Head of the Department
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Principal
ANDHRA CHRISTIAN COLLEGE
(Day / Even. & P.G.)
GUNTUR

Andhra Christian College, Guntur

(Day, Evening and PG)

NOTICE

Date: 06-02-2023

This is to inform that there will be a seminar on “**Immune System**” tomorrow, i.e., on 07-02-2023 at 11 AM. to be conducted by the department of Zoology. Dr. K. Sunitha, Prof. of Zoology, Acharya Nagarjuna University, Guntur will address the seminar.

All the students of B. Sc. (CBZ) are instructed to attend the programme without fail.


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Copy to:

1. The coordinator, IQAC, Andhra Christian College
2. The office manager, Andhra Christian College