Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department Of Microbiology

Date: 01/10/2024

NOTICE

B.Sc. III Microbiology students are hereby informed that there will be a Seminars on Friday, 04th October, 2024. The Seminars will held on the basis of the concern topics based on Course X Immunology. Each students should deliberate the seminar in 10 minutes. Allotted topic list is given below. All are cordially invited to be present.

Professor – in – Charge

Mr. M.M.Jadhav

D.P. BHOSALE COLLEGE KOREGAON

H.O.D

Department of Microbiology

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department Of Microbiology

B.Sc. III Microbiology Seminar

Semester V **Paper:** Immunology (X)

Day & Date: Friday, 4 October, 2024

Sr. No.	Roll No.	Name of Student	Topic Name
1.		Mane Sanchita Rajendra	Type III Hypersensitivity Serum Sickness
2.		Dalavi Prachi Vinayak	Effects of Cytokines
3.		Kadam Pranali Sanjay	Cytokine produced by different TH Cell
4.		Kadam Ankita Amrut	Type I Hypersensitivity (anaphylaxis)
5.		Bhosale Bhagyashri Shivaji	General Character of Cytokines
6.		Bobade Pranali Bajarang	Type II Hypersensitivity (Blood transfusion Reaction)
7.		Kumbhar Akansha Kishor	Interferon

Professor – in – Charge **H.O.D**

Mr. M. M. Jadhav **Department of Microbiology**

D.P. BHOSALE COLLEGE KOREGAON

Rayat Shikshan Sanstha's

D. P. Bhosale College, Koregaon

Department Of Microbiology

B.Sc. III Microbiology

Paper: Immunology (X)

Day of Date: Friday, 04th October, 2024

Name of student: Mane Sanchita Rajendra

Seminar topic : Type III Hypersensitivity Serum Sickness.

Synopsis

Introduction : Serum sickness is type III hypersensitivity reaction that occurs when body produces abnormal immune response to a foreign protein.

Outline : Symptoms - Fever, Rash, Itchy skin, Hives, joint pain, Swollen lymph nodes, and malaise.

Summary : Hypersensitivity as an immunological dysfunction is defined as exaggerated or inappropriate response of the immune system.

Reference : Recent clinical research such as HLA tetramers and microarray techniques are likely to provide clinical application for hypersentivity reaction.

Rmane.

Signature of student

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Department Of Microbiology

B.Sc. III Microbiology

Paper: Immunology (X)

Day of Date: Friday,04th October, 2024

Name of student: Dalavi Prachi Vinayak.

Seminar topic : Effect of cytokine.

Synopsis

Introduction : Cytokines are proteins that function as chemical messengers in your immune system. They also help to boost anti-cancer activity by sending signals that can help make abnormal cells live longer

Outline : i) Behavioral effects of cytokines.
ii) Principles and prospects : cytokines.

Summary : Cytokines affect the growth of all blood cells and other cells that help body's immune and inflammation responses.

Reference : Microbiology book of T.y. B.Sc.

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Dalavi

Signature of student

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B.Sc. III Microbiology

Paper: Immunology (X)

Day of Date: Friday, 04th October, 2024

Name of student: Kadam Pranali Sanjay

Seminar topic : Cytokine produced by different TH cell

Synopsis

Introduction : Acytokine is a small protein that's made by immune and non-immun cells and affects the immune system. TH cell are a type of white blood cell & lymphocute that play a central role in the adaptive immune system.

Outline : TH cells are the main producers of cytokine which are proteins that regulate immune cells and mediate inflammation.

Summary : Cytokine production can overlap between subsets. The specific cytokine profile can be influenced by various factors, including the nature of the antigen, the local environ and the presence of other immune cells.

Reference : Microbiology book of T.Y. B.Sc.

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Kadam.

Signature of student

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B.Sc. III Microbiology

Paper: Immunology (X)

Day of Date: Friday, 04th October, 2024

Name of student: Kadam Ankita Amrut

Seminar topic : Type 1 Hypersensitivity (Anaphylaxis)

Synopsis

Introduction : Type 1 hypersensitivity is an allergic reaction that occurs when the body is exposed to an allergen. It is also called as immediate hypersensitivity.

Outline : Symptoms – Itching, Swelling, Breathing, difficulties, shock and Death.

Summary : Hypersensitivity is complex disease process that occurs sensitized host, which can result in three types of responces – acute, late, chronic phase.

Reference : Hypersensitivity is pain produced by innocuous stimuli or exaggerated response to pain (hyperalgesia).

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Kadam.

Signature of student

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Department Of Microbiology

B.Sc. III Microbiology

Paper: Immunology (X)

Day of Date: Friday, 04th October, 2024

Name of student: Bhosale Bhagyashri shivaji

Seminar topic : General characteristics of cytokine.

Synopsis

Introduction : cytokines are produced by immune cells, including lymphocytes and monocytes. some cytokines are produced continuously while others are produced in response to stimuli.

Outline : cytokines are sigaling proteins that regulate the immune system and inflammation.

Summary : cytokines affect the growth of all blood cells. They also help to boost anti-cancer activity by sending singals that can help make abonormal cells die & normal cells live longer.

Reference : cytokines are signaling Proteins that help control inflammation in your body.

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BBS.

Signature of student

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Department Of Microbiology

B.Sc. III Microbiology

Paper: Immunology (X)

Day of Date: Friday, 04th October, 2024

Name of student: Bobade Pranali Bajarang.

Seminar topic : Type II Hypersensitivity (Blood transfusion reaction).

Synopsis

Introduction : An adverse effect event that occurs during or after a blood transfusion.

Outline : Type of reaction -
i) Acute hemolytic transfusion reaction
ii) Allergic reactions.
iii) Transfusion-related acute lung injury (TRALI)

Summary : A blood transfusion reaction can be a serious complication that occurs when a patient's body reacts to the transfused blood.

Reference : Microbiology Book of T.Y. B.Sc.

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P.B. Bobade
Signature of student

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Department Of Microbiology

B.Sc. III Microbiology

Paper: Immunology (X)

Day of Date: Friday, 04th October, 2024

Name of student: Kumbhar Akansha Kishor

Seminar topic : Interferon

Synopsis

Introduction : Interferons (IFNs) are proteins that are part of the immune system's signaling pathways. They are produced by cells in response to viral infection.

Outline : Proteins that are released by cells in response to pathogens, such as viruses.

Summary : A group of proteins that help the the body immune system fight infection, cancers, and autoimmune diseases.

Reference : Interferons (IFNs) are proteins that regulate the immune response. Interferons are a family of proteinsthat are important for innate immunity.

Signature of student

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Department Of Microbiology

Seminar Mark List

Semester V **Paper: Immunology** (X)

Day of Date: Friday, 04 October, 2024

(Marks: 10)

Sr. No.	Roll No.	Name of Student	Marks Obtained
1.		Mane Sanchita Rajendra	7
2.		Dalavi Prachi Vinayak	9
3.		Kadam Pranali Sanjay	8
4.		Kadam Ankita Amrut	9
5.		Bhosale Bhagyashri Shivaji	9
6.		Bobade Pranali Bajarang	9
7.		Kumbhar Akansha Kishor	7

Professor – in – Charge

Mr. M. M. Jadhav

H.O.D

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Seminar Report

Department of Microbiology has organized Seminar B.sc III on Saturday, 4th October, 2024. The main objective behind Seminar is to bring out the creative expression of students and to gauge their knowledge and awareness of various trends in life sciences.

❖ Main objective

- Knowledge Sharing
- Skill Development
- Encouraging Critical Thinking
- Confidence

D.P. BHOSALE COLLEGE KOREGAON

Head,

Department of Microbiology

HEAD
DEPARTMENT OF MICROBIOLOGY
D.P. BHOSALE COLLEGE, KOREGAON