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Srija Sarkar Oct 27, 2021


Homework

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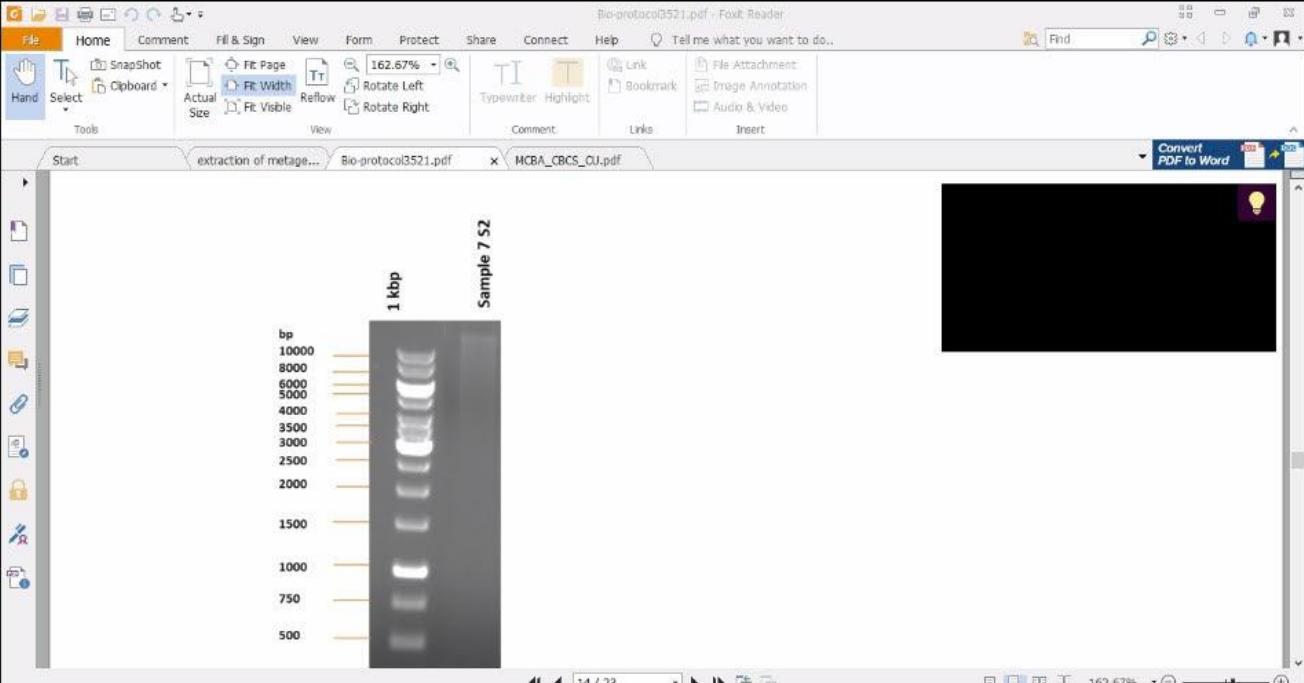
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Discussion on gene regulation

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Discussion on gene regulation

Annesha

1. tryptophan will bind to the repressor and turn off the operon.
2. 3 proteins as tryptophan and glucose are absent and it will utilize lactose
3. 8 proteins as it will utilize only tryptophan and lactose

Saptarshi Ray

1. The RNA polymerase & Repressor protein
2. only RNA polymerase
3. RNA polymerase & Repressor protein

Arpita Pramanik

1. 1 protein, repressor protein along with tryptophan to the operator region.
2. 1 protein means RNA pol to the promoter region.
3. 1 protein - repressor protein along with tryptophan operator region.

Soumyadipta Saha

1. Active repressor (trp+apporepressor) will bind
2. When tryptophan and glucose both are absent in the medium then RNA pol bind to the promoter to start the function of the trp operon.
3. If tryptophan is present and glucose is absent there will be 1 protein TrpR, which will act as an apporepressor by binding to trp its act as an active repressor and bind to the operator.

Ananya Sarkar

1. When Tryptophan and glucose are present there are one protein bound to trp operon, the active repressor protein. There is may be a role of glucose in case of Glucose metabolism and ATP synthesis.
2. But when tryptophan is absent the repression is inhibited and RNA polymerase bound to trp operon to continue the transcription. But the process become slowed down because reduced supply of ATP
3. When tryptophan is present but glucose absent, there is also the active repressor protein

Saswati Karmakar

- 1) If tryptophan and glucose both are present in the medium, two tryptophan molecules bind to the trp repressor, which changes shape to bind to the trp operator. Binding of the tryptophan-repressor complex at the operator physically prevents the RNA polymerase from binding and transcribing the downstream genes.
- 2) When tryptophan and glucose both are absent in the medium, the repressor protein does not bind to the operator and the

How many proteins are bound to trp operon when

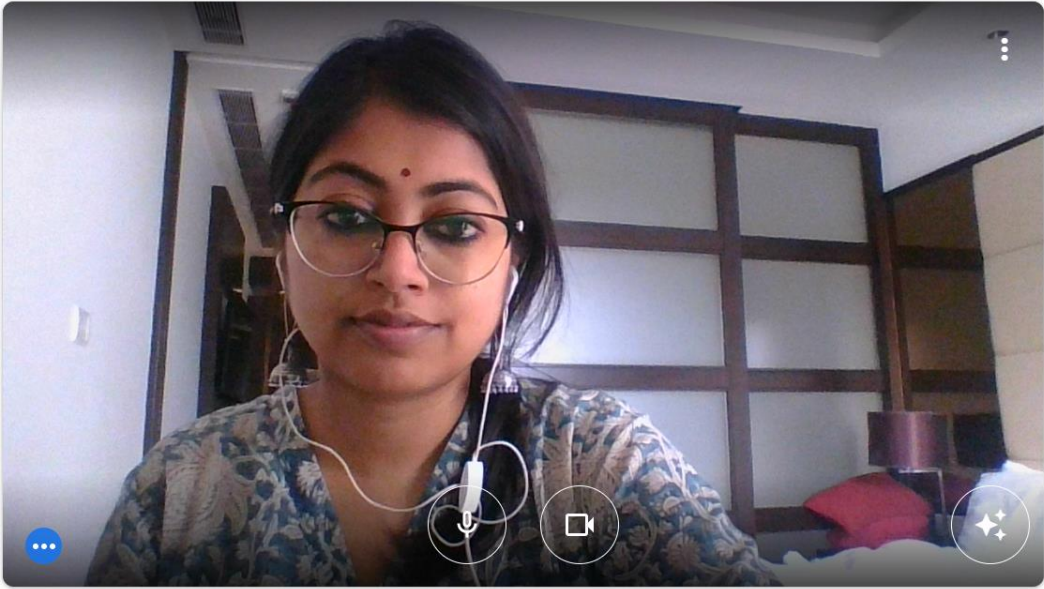
1. Tryptophan and glucose is present
2. Tryptophan and glucose is absent
3. Tryptophan present glucose absent

Moushali Sil

1. If tryptophan and glucose both are present in the medium then the tryptophan will bind to the repressor and make it active then the trp repressor will bind to the operator and transcription will not occur.
2. If tryptophan and glucose both are absent then the trp repressor remains inactive due to absence of tryptophan and so it can't bind to the operator thus transcription will occur.
3. Tryptophan is present so it activates the trp repressor which binds to operator so transcription stops

17:22
17-11-2021

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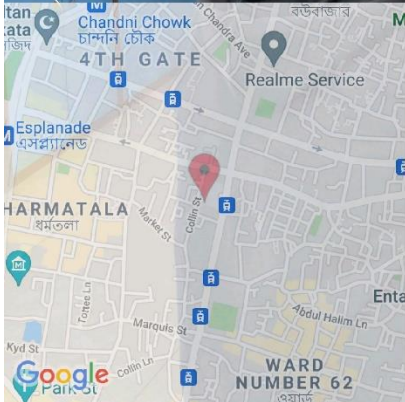
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- Md Arif Hasan
- Pramita Chatterjee
- Reshmi Naznin
- Shruti Dawn
- Sinchani Chandra

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2022-02-17(Thu) 11:52(am)

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padlet

Bipasha Roy • 37m

Gene regulations

Made with serendipity

1. Which of the following is the most appropriate definition of an operator?

- a) A non-coding, regulatory DNA sequence that is bound by RNA polymerase
- b) A non-coding, regulatory DNA sequence that is bound by a repressor protein
- c) A DNA-binding protein that regulates gene expression
- d) A cluster of genes that are

19

3. Transcription factors are

- A. regions of DNA in the promoter area
- B. regions of DNA in the enhancer area
- C. any protein which binds to DNA
- D. proteins which bind DNA and initiate transcription

12

5. Why are several structural genes regulated as a unit in bacteria?

- A. An accident of evolution
- B. It allows coordinating regulation of genes with a common function
- C. The bacteria chromosome is so small; many different genes must be controlled by the same promoter
- D. none of the above

12

2. Basic tools of genetic regulation are the ability of some proteins to bind to specific

- (a) regulatory DNA sequences
- (b) regulatory RNA sequences
- (c) enzymes of cells

12

4. What are genes?

- A. The functional unit of inheritance
- B. A fragment of DNA
- C. A portion of a chromosome
- D. All of the above

14

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- Anonymous 1h 1-D
- Anonymous 1h Rittika - 1(D)
- Anonymous 1h Annesha Mukherjee 1. b
- Anonymous 1h Moushali Sil 1.b
- Anonymous 1h Sourmyadipta 1. C
- Anonymous 1h Yashaur 1(C)
- Anonymous 1h Sampriti- (b)
- Anonymous 1h Name- Ananya Sarkar ; 1.- c) , 2- a) , 3- D. , 4- A.
- Anonymous 1h Manzoor 1-D
- Anonymous 1h Saptarshi Ray 1.C
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Recombinant viral vaccines: Virus proteins have been expressed in *E. coli* but the expressed proteins were not glycosylated, which was a major drawback since many of the immunogenic proteins of viruses such as the envelope glycoproteins, were glycosylated.

An alternative application of RDT is the production of **hybrid viral vaccines**. The best example is **vaccinia**: DNA sequence coding for the

Participant list grid:

- ANNESHA MUKHERJ...
- Soumyadipta Saha
- Ananya Sarkar
- Saptarshi Ray
- ARPITA PRAMANIK
- Saswati Karmakar
- Moushali Sil
- 5 others

Participant card for "You" with a video call icon.

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All topics


- Dissertation, 2022
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- Semester 5 (CC11, ...
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- SEC- 3-A(1)- Readin...
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- Syllabus


CC14_tutorial_2022	4	Due May 15, 2022
Tutorial_CC12_2021		Due Jan 3, 2022, 11:59 PM
Tutorial_CC11_2021		Due Dec 28, 2021, 11:59 PM
Industry 4.0		Posted Sep 16, 2020
MCQ Assignment 1		Due Aug 12, 2020, 11:50 AM
Demo test		Posted Aug 11, 2020
Mock Quizizz		Due Aug 3, 2020, 4:30 PM
Attendance CC3 Class Test 2020	1	Due Jul 6, 2020, 12:30 PM

 MAHUA PATRA posted a new material: Industry 4.0
Sep 16, 2020


 Rounak Chhangani
Sep 15, 2020
Ma'am after writing the peer review how will we submit the assingment because the place where the assingment is supposed to be submitted there it's showing "handed-in" so are we supposed to Unsubmit the already sent assingment and then send you the complete assingment with the peer review

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 **Ipsita Saha**
Dec 17, 2021

Cc : 11
(topic of ppt)

(Arya & : Discuss the role of Rima) idea in weber analysis of the emerges of capitalism

(Ashmit & Riya) : Examine the relationship between individual society according to Durkheim and Weber

(Dipanjen & Rounak) : How does Durkheim's study of suicide illustrate the methodology

(Zehra & Sadaf) : Value rationality vs instrumental rationality

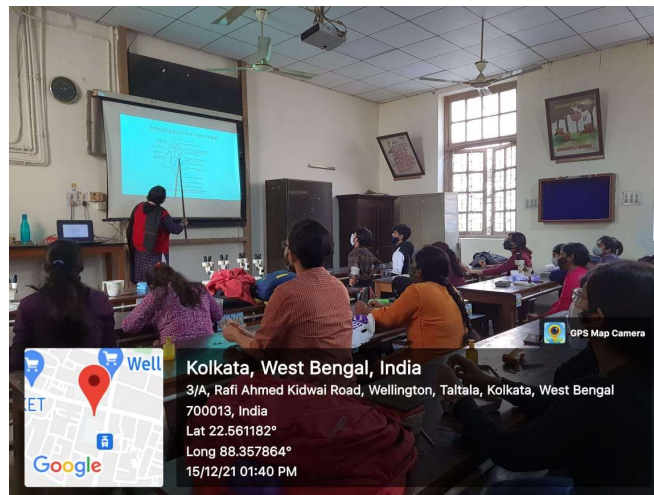
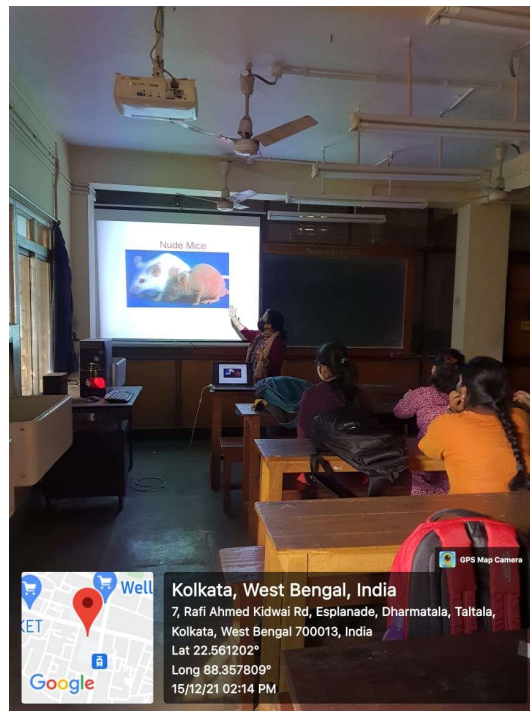
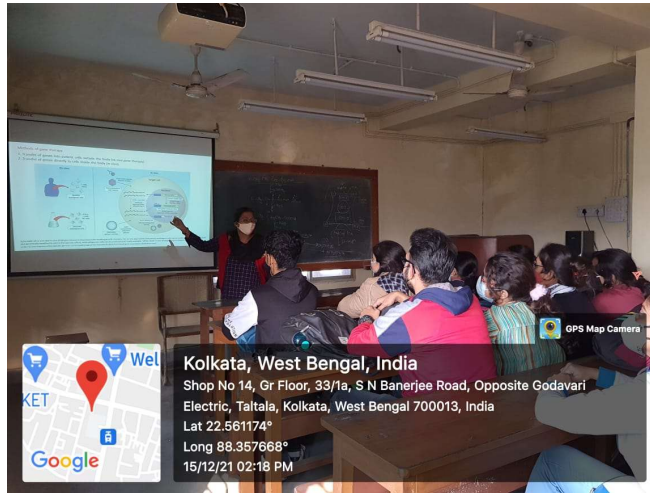
(Bratati & Samagata) : What is social action? Discuss in reference to the study of ideal type

(Hanifa & Samreen) : Discuss the relationship between religion and economy by Weber

(Ipsita & sharanya) : Discuss Durkheim's theory of suicide

(Juyena & shrayasi maalik) : What rules have been set by Durkheim's scientific study for society

(Kayum & sreyasi barman) : Discuss the significance of ideal type in Weber analysis of social action



Faculties of Dept. of Zoology, Maulana Azad College taking classes in ICT enabled classrooms.



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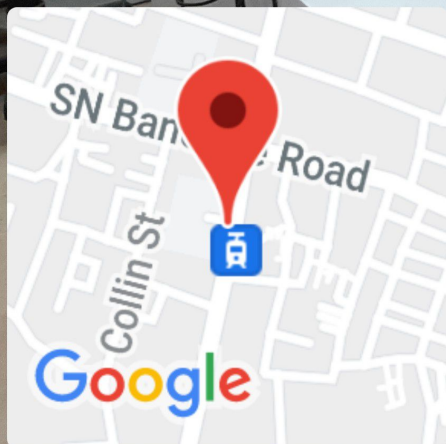
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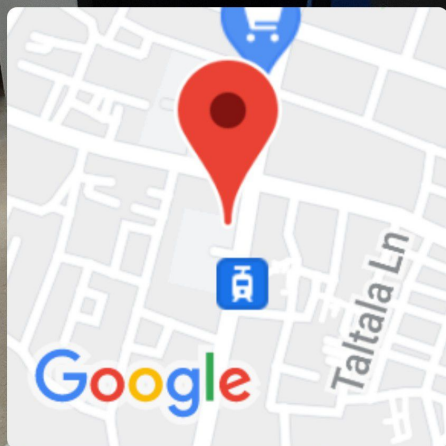
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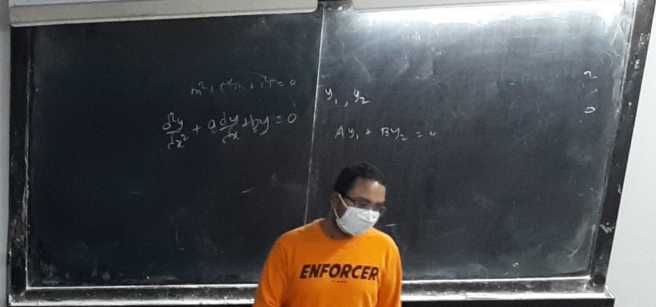
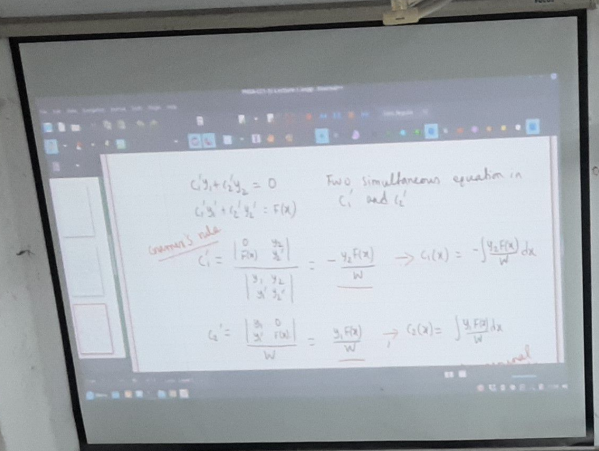
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Two simultaneous equations in C_1 and C_2

$$C_1 + C_2 = 0$$

$$C_1 + C_2 = f(x)$$

Cramer's rule

$$C_1 = \frac{\begin{vmatrix} 0 & f(x) \\ 1 & 1 \end{vmatrix}}{\begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix}} = -\frac{f(x)}{0} \rightarrow C_1(x) = -\int \frac{f(x)}{0} dx$$

$$C_2 = \frac{\begin{vmatrix} f(x) & 0 \\ 1 & 1 \end{vmatrix}}{\begin{vmatrix} 1 & 1 \\ 1 & 1 \end{vmatrix}} = \frac{f(x)}{0} \rightarrow C_2(x) = \int \frac{f(x)}{0} dx$$

$A_1 y_1 + A_2 y_2 = 0$

$A_1 y_1 + A_2 y_2 = 0$



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$$C = \frac{\int \frac{1}{x} dx}{\int \frac{1}{x} dx} = \frac{\ln|x|}{\ln|x|} \rightarrow C(x) = \frac{\ln|x|}{\ln|x|}$$

$$C = \frac{\int \frac{1}{x} dx}{\int \frac{1}{x} dx} = \frac{\ln|x|}{\ln|x|} \rightarrow C(x) = \frac{\ln|x|}{\ln|x|}$$

$$C = \frac{\int \frac{1}{x} dx}{\int \frac{1}{x} dx} = \frac{\ln|x|}{\ln|x|} \rightarrow C(x) = \frac{\ln|x|}{\ln|x|}$$

$$x^2 + y^2 = r^2$$

$$\frac{d}{dt} (x^2 + y^2) = \frac{d}{dt} r^2 = 0$$

$$2x \frac{dx}{dt} + 2y \frac{dy}{dt} = 0$$

$$x \frac{dx}{dt} + y \frac{dy}{dt} = 0$$

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