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## 5

### The Genetics of Bacteria and Their Viruses

#### WORKING WITH THE FIGURES

1. In Figure 5-2, in which of the four processes shown is a complete bacterial genome transferred from one cell to another?

*Answer:* In none of the four processes shown is a complete bacterial genome transferred.

2. In Figure 5-3, if the concentration of bacterial cells in the original suspension is 200/ml and 0.2 ml is plated onto each of 100 petri dishes, what is the expected average number of colonies per plate?

*Answer:* You would expect an average of 40 colonies per plate.

3. In Figure 5-5:
  - a. Why do A<sup>-</sup> and B<sup>-</sup> cells not form colonies on the plating medium?
  - b. What genetic event do the purple colonies in the middle plate represent?

*Answer:*

- a. The A<sup>-</sup> and B<sup>-</sup> strains do not grow on the minimal medium because they each contain a distinct mutation in a gene required to synthesize an essential compound (such as an amino acid) lacking in the medium.

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**Minjie Lin**



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Fixsen,Diane K. Lavett,2000 Contains detailed worked out solutions to the problems in the textbook An introduction to genetic analysis Can also be used to review material identify problem areas where more study is needed and as a pre test tool *Introduction to Genetic Analysis* Anthony J.F. Griffiths,2008 Provides an introduction to genetic analysis This book

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web jul 3 2023 what do nm and ft lbs measure newton meters nm for short and foot pounds ft lbs are units of torque also called the moment of force or the rotational force torque measures the tendency of an object to rotate if you apply some force to it imagine an object such as a lever that has one fixed point

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