

Bacteria Structure and Function | Class 11

Biology Chapter 2 | NCERT | NEET

we will be discussing the structure of bacteria, specifically the coccus. The coccus is a spherical shape that occurs in a purple color, and if the bacteria occurs in the form of a spring that is in the spiral shape we call it as spirillum. This is the structure of the bacteria I have drawn it on the board. Can you guess which shape it is of course if you have guesses? Bacillus then it is right. The three layers all together constitute the cell envelope. The outermost layer we call it as glycocalyx, the middle one is the cell wall, and the innermost layer is cell membrane.

The bacteria can be classified into two categories: Gram positive and Gram negative. Christian Gram Hans Christian Graham was the first person to develop this technique of staining, hence the bacteria are named as Gram positive and Gram negative. The cell wall of this bacteria will be made of a substance called peptidoglycan. The cell membrane is present in both Gram positive and Gram negative bacteria. In Gram positive bacteria, the peptidoglycan layer is quite larger and multilayered, when compared to Gram negative. There are certain differences between Gram positive and Gram negative bacterial cell wall, so because of that reason it shows the difference in