

Chapter 3

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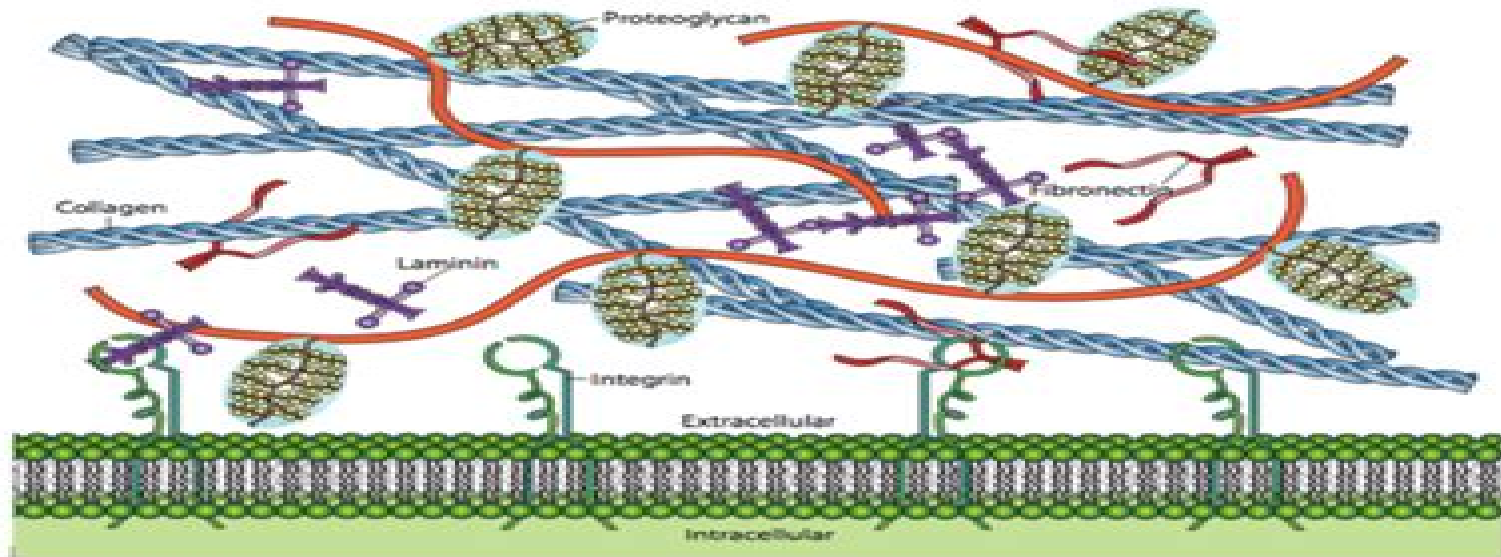
Study Guide for Chapter 3 (Cells: The Living Units)

1. **Define a cell.**

1. The smallest, basic unit of life that is responsible for all of life's processes

2. **Name and describe the composition of extracellular materials.**

1. Extracellular matrix is a general term for the extremely large proteins and polysaccharides that are secreted by some cells in a multicellular organism, and which acts as connective material to hold cells in a defined space.
2. Typical components include collagen, proteoglycans (with hydration shell depicted around sugars), fibronectin, and laminin, all secreted by the cell.



3. **List the three major regions of a generalized cell and their functions.**

1. **Plasma Membrane** - the outer covering of the cell that encloses the cytoplasm.
2. **Cytoplasm** - the jelly like matrix within the cell that contains the various organelles.
3. **Nucleus** - round and usually centrally placed structure that controls the various activities of the cell.

The Nucleus Chapter 3study Guide Answer

R Bogdan



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