Cell environment

Vocabulary

During this unit you should familiarize yourself with the following terms. Some of these were introduced in Biol240 or can be found in Essential Cell Biology, Ch. 20 and the glossary (pages G1-G18).

- 1. Extracellular matrix
- Glycocallyx
- Collagen
- 4. Basement membrane
- Glycoprotein
- 6. Proteoglycan
- Fibronectin
- 8. Laminin
- 9. Integrin
- 10. RGD loop

- 11. Hemidesmosomes
- 12. Intermediate filaments
- 13. Selectin
- 14. Immunoglobulin
- 15. Cadherin
- 16. Adherens junction
- 17. Desmosome
- Tight junction
- 19. Gap junction
- 20. Paracellular pathway

Reading Assignment

Essential Cell Biology, Chapter 20 (pages 691-709)

Learning Outcomes

After reviewing your lecture notes and reading assignment, you should be able to:

- List the cell functions are regulated by its environment, and outline the role of the cell environment in the development and organization of tissues
- 2. Describe the structure of the extracellular matrix
- Using basement membrane (basal lamina) as an example, list the functions of the extracellular matrix
- Describe the structure of collagen, proteoglycan, fibronectin, and laminin, and how these components of the extracellular matrix are assembled
- List the functional roles of collagen, proteoglycan, fibronectin, and laminin in the extracellular matrix.
- Predict the consequences to cell function if the function of various components of the extracellular matrix is inhibited.
- 7. Describe the composition and role of basal lamina
- Describe the structure and location of integrins, describe what components of ECM they interact with, how they are activated, and what is their functional role in a cell

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