



Chapter 6a

Communication, Integration, and Homeostasis

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HUMAN PHYSIOLOGY

AN INTEGRATED APPROACH • 6E

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About This Chapter

- Cell-to-cell communication
- Signal pathways
- Novel signal molecules
- Modulation of signal pathways
- Homeostatic reflex pathways

Cell-to-Cell Communication: Overview

- Physiological signals
 - Electrical signals
 - Changes in the membrane potential of a cell
 - Chemical signals
 - Secreted by cells into ECF
 - Responsible for most communication within the body
- Target cells, or targets, respond to signals