

SECTION 28.2

Plan and Prepare

Objectives

- Relate homeostasis to the internal environment of the body.
- Explain how negative and positive feedback loops maintain homeostasis.

Section Resources

Unit Resource Book

- Study Guide pp. 5–6
- Power Notes p. 7
- Reinforcement p. 8
- Pre-AP Activity pp. 17–18

Interactive Reader Chapter 28

Spanish Study Guide pp. 285–286

Biology Toolkit pp. C18, C19, D8

Technology

- Power Presentation 28.2
- Media Gallery DVD
- Online Quiz 28.2

Activate Prior Knowledge Have students think about what it would be like to live in an environment that constantly hovers at 38°C (100°F). **Ask**, if you had to live your life constantly at one temperature setting, what would it be? **Answers** will vary, but most students will probably choose moderate temperatures. Discuss that the normal core body temperature is 37°C (98.6°F).

Teach

ONLINE BIOLOGY Have students look at how a runner maintains homeostasis. See the simulation in Options for Inquiry on page 867.

Vocabulary

Academic Vocabulary Students may wonder if the word **homeopathy** relates to homeostasis. Homeopathy is a nonmedical approach to treating illness by using minute amounts of the same substance believed to be the cause. The principle is to “cure like with like” by stimulating the body’s defenses. There are no conclusive scientific studies as to its effectiveness.

28.2

Mechanisms of Homeostasis

KEY CONCEPT Homeostasis is the regulation and maintenance of the internal environment.

MAIN IDEAS

- Conditions within the body must remain within a narrow range.
- Negative feedback loops are necessary for homeostasis.

VOCABULARY

homeostasis, p. 282
feedback, p. 282
negative feedback, p. 282
positive feedback, p. 282

Review

tissue, organ, organ system



REVIEW IT Describe and differentiate among the organizational levels of organisms (e.g., cells, tissues, organs, systems, types of tissue).

Connect The complex tissues, organs, and organ systems in your body must respond to a wide variety of conditions. For instance, during the summer, you might walk out of a cold, air-conditioned store into a scorching hot summer day. Your body temperature has to remain the same under both conditions in order for you to survive. In fact, your life depends on your body’s ability to maintain the delicate balance of your internal chemistry.

MAIN IDEA

Conditions within the body must remain within a narrow range.

During every moment of your life, trillions of chemical reactions are taking place in your body. The enzymes that control these reactions work best within a narrow range of conditions. One of these conditions is your internal body temperature, which should remain between 36.7°C and 37.3°C (98.2°F and 99.2°F). If it rises only a few degrees, you could easily die from overheating. At temperatures over 41°C (106°F), many enzymes stop functioning. If your internal temperature falls below 27°C (80°F), your heart may fail.

Likewise, the levels of trace minerals in your body must stay within strict limits. For instance, if calcium levels are too high, you can slip into a coma. If they are too low, your heartbeat becomes irregular.

You live in a constantly changing environment. Your body must cope not only with temperature changes but also with pollution, infections, stress, and many other conditions. Every change is a challenge to your body. What keeps the human body from breaking down every time the internal or external environment changes?

Homeostasis and the Internal Environment

Fortunately, the body has many control systems that keep its internal environment stable. Together, these control systems are responsible for maintaining homeostasis. **Homeostasis** (ho-mee-oh-STAY-sis) is the regulation and maintenance of the internal environment—temperature, fluids, salts, pH, nutrients, and gases—within the narrow ranges that support human life. Your internal control systems respond quickly to change, whether from outside conditions or internal ones, as shown in **FIGURE 28.1**.

VOCABULARY

The word **homeostasis** is formed from two Greek words: *homo*, meaning “similar,” and *stasis*, meaning “standing” or “stopping.”

Differentiated Instruction

ENGLISH LEARNERS

Check on students’ comprehension as you go through the material describing various control systems in the body. You can use simple signals, such as thumbs up or thumbs down for understanding. Or ask questions in which students write responses on a sheet of paper or an index card.

Biology Toolkit, Signals, p. C18; Card Responses, p. C18

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