

# The Biology of Mind

## CHAPTER OVERVIEW

Chapter 2 is concerned with the functions of the brain and its component neural systems, which provide the basis for all human behavior. Under the direction of the brain, the nervous and endocrine systems coordinate a variety of voluntary and involuntary behaviors and serve as the body's mechanisms for communication with the external environment.

The brain consists of the brainstem, the thalamus, the cerebellum, the limbic system, and the cerebral cortex. Knowledge of the workings of the brain has increased with advances in neuroscientific methods. Studies of split-brain patients have also given researchers a great deal of information about the specialized functions of the brain's right and left hemispheres.

Many students find the technical material in this chapter difficult to master. Not only are there many terms for you to remember, but you must also know the organization and function of the various divisions of the nervous system. Learning this material will require a great deal of rehearsal. Working the chapter review several times, drawing and labeling brain diagrams, and mentally reciting terms are all useful techniques for rehearsing this type of material.

**NOTE:** Answer guidelines for all Chapter 2 questions begin on page 52.

## CHAPTER REVIEW

First, skim each section, noting headings and boldface items. After you have read the section, review each objective by answering the fill-in and essay-type questions that follow it. As you proceed, evaluate your performance by consulting the answers beginning on page 52. Do not continue with the next section until you understand each answer. If you need to, review or reread the section in the textbook before continuing.

## Introduction (pp. 47–48)

**Objective 1:** Explain why psychologists are concerned with human biology, and describe the ill-fated phrenology theory.

1. In the most basic sense, every idea, emotion, memory, and behavior that an individual has ever experienced is a \_\_\_\_\_ phenomenon.
2. The theory that linked our mental abilities to bumps on the skull was \_\_\_\_\_.
3. Researchers who study the links between biology and behavior are called \_\_\_\_\_.
4. We are made up of smaller and smaller \_\_\_\_\_; we are also part of larger \_\_\_\_\_. Thus, we are \_\_\_\_\_ systems.

## Neural Communication (pp. 48–54)

**Objective 2:** Describe the parts of a neuron, and explain how its impulses are generated.

1. Our body's neural system is built from billions of nerve cells, or \_\_\_\_\_. Information arriving in the brain and spinal cord from the body travels in \_\_\_\_\_ neurons. Instructions from the brain and spinal cord are sent to the body's tissues via \_\_\_\_\_ neurons. The neurons that enable internal communication within the brain are called \_\_\_\_\_.

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Shapiro,2024-11-26 Capute and Accardo's Neurodevelopmental Disabilities in Infancy and Childhood Fourth Edition provides updated foundational theoretical and practical knowledge on the spectrum and continuum of neurodevelopmental disabilities shaped by ongoing advances in neuroscience and related disciplines. It reviews the overarching principles of assessment, diagnosis, and management of patients with a wide range of neurodevelopmental disabilities. Streamlined or fully rewritten chapters including developmental screening and surveillance, neuroimaging and genetic evaluation, early intervention, principles of pharmacological treatment, principles of successful management programs, aging and transition planning, telemedicine, and care in low resource settings are included. The book's practical expert-led approach aims to prepare future clinicians to skillfully assess and manage children with neurodevelopmental disabilities with the aid of clinical approach flowcharts to common presentations, diagnostic algorithms, and clinic notes templates. Provides the most comprehensive, authoritative, and up-to-date single volume on practical aspects of care for patients with neurodevelopmental disabilities. Presents a reorganized single volume that is more accessible than previous editions. Features new chapters on telemedicine, novel therapies, care in low resource settings, and the future of neurodevelopmental disabilities. Includes full color illustrations throughout along with explanatory figures. Covers clinical approaches and diagnostic algorithms and templates for clinic notes that are available for online download.

Fundamentals of Abnormal Psychology Ronald J. Comer, Jonathan S. Comer, 2019-01-03 The #1 bestselling author of introductory textbooks in abnormal psychology, Ron Comer is remarkably skillful at communicating the scientific foundations, the clinical realities, and the human cost of psychological dysfunction. In this new edition of his brief text, Comer again draws on his experience as an educator, researcher, and practicing therapist to cover the basic concepts of psychopathology in a way that is scientifically sound, widely accessible, and extraordinarily empathetic. The new edition features Comer's signature integration of theory, diagnosis, and treatment, as well as his broadly inclusive cross-cultural perspective. In addition to updated coverage throughout, it offers a number of features created under Comer's supervision that bring fresh, effective new teaching approaches to the text and accompanying media, including infographics, large-scale step-by-step illustrations of complex concepts, video case studies, and activities, and the new online feature Clinical Choices, which puts students in the role of clinical psychologist.

**Medical and Health Care Books and Serials in Print**, 1997      **Subject Guide to Books in Print**, 2001      *The United States Catalog* Marion E. Potter, 1912  
**British Medical Journal**, 1929      The American Catalogue, 1901 American national trade bibliography      *Federal Register*, 1995-08      **Class List of the Books in the Reference Library** Nottingham (England). Free Public Reference Library, 1908      *Psychology in Modules* David G. Myers, 2012-03-03 This module-based version of Myers' best-selling full-length text *Psychology* breaks down the book's 16 chapters into 54 short modules. Myers was inspired to create this text by the memory research in chunking, showing that shorter reading assignments are more effectively absorbed than longer ones, as well as by numerous students and teachers who expressed a strong preference for textbooks with more shorter chapters.

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