

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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Adolescence in Context Tara L. Kuther, 2020-06-03 From award winning author Tara L Kuther comes *Adolescence in Context* a topically oriented text that connects learners to the science that shapes our understanding of today's teenagers and young adults The book is organized around three core themes the centrality of context the importance of research and the applied value of developmental science The text presents classic research current research and foundational theories which Kuther frames in real life contexts such as gender race and ethnicity and socioeconomic status Students will come away with an understanding of the book's themes and material that they will immediately be able to apply to their own lives and future careers New Trends in Medical and Service Robots Aleksandar Rodić, Doina Pislă, Hannes Bleuler, 2014-04-08 This volume describes new frontiers in medical and service robotics in the light of recent developments in technology to advance robot design and implementation In particular the work looks at advances in design development and implementation of contemporary surgical rehabilitation and biorobots Surgical robots allow surgeons greater access to areas under operation using more precise and less invasive methods Rehabilitation robots facilitate and support the lives of the infirm elderly people or those with dysfunction of body parts affecting movement These robots are also used for rehabilitation and related procedures such as training and therapy Biorobots are designed to imitate the cognition of humans and animals The need to substitute humans working on delicate tiresome and monotonous tasks or working with potentially health damaging toxic materials requires intelligent high performance service robots with the ability to cooperate advanced communication and sophisticated perception and cognitive capabilities Progress in this field is fast and results need to be disseminated to stimulate both practical applications and further research Thus these papers are a valuable addition to existing literature **Psychology for Teachers** Scott Buckler, Paul Castle, 2025-04-25 This is an essential textbook for teachers and those training to teach on applying research from psychology to education It offers practical advice on what works in the classroom Not only will you understand how to teach effectively but also why with explanations deeply rooted in theory and practice Brimming with references to popular culture and packed with a range of tips tasks case studies and critical points this book will keep you informed and intrigued in equal measure This fourth edition includes Significant updates to content on cognitive psychology and educational neuroscience neurodivergence and special educational needs and supporting mental wellbeing Condensed and reworked chapters with a stronger focus on practical application in the classroom Classroom examples described in universal terms to support teachers anywhere in the world **Forthcoming Books** Rose Arny, 2003-04 Capute and Accardo's Neurodevelopmental Disabilities in Infancy and Childhood Fatima Y

Ismail, Pasquale J. Accardo, Bruce K 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, 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

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