

# Preface

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## New to This Edition

Working with BVT has given us the exciting challenge of redesigning the book to make it even more user friendly. We were also able to enhance the text with BVT*Lab*<sup>®</sup>, which further supports instructors and students alike. All materials have been updated with a special focus on the latest available approved drugs in all therapeutic classifications. These updates include the following:

- Updated asthma and COPD information with the latest assessment and treatment guidelines
- Updated therapeutic drug categories
- Additional drug photos to enhance student recognition
- And photographic appendices that help group the LABAs, SABAs, LAMAs, SAMAs, ICSs, and other inhaled medication categories for visualization enhancement.

It is also very important to note what we did not change: We strove to maintain the same user-friendly writing style that has been well received in previous editions and to keep the rich use of analogies that has helped students to truly learn the material—rather than requiring them to rely on massive short-term memorization.

## Pedagogical Features

Our goal is to continue to produce a truly introductory and interactive pharmacology text that students can connect with and use to learn pharmacology. Several features have been incorporated into the textbook to help accomplish that goal; they include the following.

### *Learning Hints and Controversies*

These special features in each chapter ensure understanding of difficult concepts and stimulate further thought.

### *Clinical Pearls*

Clinical Pearls are also interspersed throughout the chapters to connect concepts and show the relevancy of learning the material. In addition, numerous clinical applications are presented to provide a real-world connection.



### *Patient & Family Education*

Each chapter has a special box that discusses important education issues for both the patient and family.

### *Life Span Considerations*

These boxes discuss issues that may affect the pediatric and geriatric populations pertaining to the concept or drug category being reviewed.

### *Key Terms and Abbreviations*

Key terms are boldfaced and included in the glossary. Symbols, units, and abbreviations of medical terms are defined in the chapter opener for easy reference.

### *Review Questions*

Periodic “time for review” problems within each chapter help ensure understanding before a student moves on to the next topic. Comprehensive questions—which build from multiple-choice and matching questions to higher-level critical thinking and case study questions—are also included at the end of the chapter.

## **BVT**Lab®

BVT**Lab** provides two areas of support for instructors and students. The Student Study Center includes resources such as eBooks, study guides, practice quizzes, flashcards, chapter summaries, multimedia content, and so on, and the Online Classroom incorporates the grade book, discussion forums, and delivery of online assignments, quizzes, and exams.

# Supplements and Resources

## Instructor Supplements

A complete teaching package is available for instructors who adopt this book. This package includes an online lab, *Instructor's Manual*, exam bank, PowerPoint® slides, LMS integration, and LMS exam bank files.

<b>Online Lab</b>	BVT's online lab is available for this textbook on two different platforms—BVT <i>Lab</i> (at <a href="http://www.BVTLab.com">www.BVTLab.com</a> ), and LAB BOOK™ (at <a href="http://www.BVTLabBook.com">www.BVTLabBook.com</a> ). These are described in more detail in the corresponding sections below. Both platforms allow instructors to set up graded homework, quizzes, and exams.
<b><i>Instructor's Manual</i></b>	The <i>Instructor's Manual</i> helps first-time instructors develop the course, while also offering seasoned instructors a new perspective on the materials. Each section of the <i>Instructor's Manual</i> coincides with a chapter in the textbook. The user-friendly format begins by providing learning objectives and detailed outlines for each chapter. Then, the manual presents lecture discussions, class activities, and/or sample answers to the end-of-chapter review questions, along with citations that provide the rationale for the answers. Lastly, additional resources—books, articles, websites—are listed to help instructors review the materials covered in each chapter.
<b>Exam Bank</b>	An extensive exam bank is available to instructors in both hard-copy and electronic form. Each chapter has approximately 50 multiple-choice, 30 true/false, 10 short-answer, and 5 essay questions ranked by difficulty and style, as well as 20 written-answer questions. Each question is referenced to the appropriate section of the text to make test creation quick and easy.
<b>PowerPoint Slides</b>	A set of PowerPoint slides includes about 40 slides per chapter, including a chapter overview, learning objectives, slides covering all key topics, key figures and charts, and summary and conclusion slides.
<b>LMS Integration</b>	BVT offers basic integration with Learning Management Systems (LMSs), providing single-sign-on links (often called LTI links) from Blackboard, Canvas, Moodle (or any other LMS) directly into BVT <i>Lab</i> , eBookPlus or the LAB BOOK platform. Gradebooks from BVT <i>Lab</i> and the LAB BOOK can be imported into most LMSs.
<b>LMS Exam Bank Files</b>	Exam banks are available as Blackboard files, QTI files (for Canvas) and Respondus files (for other LMSs) so they can easily be imported into a wide variety of course management systems

## Student Resources

Student resources are available for this textbook at both the BVT*Lab* platform and the LAB BOOK platform, as described below. These resources are geared toward students needing additional assistance, as well as those seeking complete mastery of the content. The following resources are available:

<b>Practice Questions</b>	Students can work through hundreds of practice questions online. Questions are multiple choice or true/false in format and are graded instantly for immediate feedback.
<b>Flashcards</b>	BVT <i>Lab</i> includes sets of flashcards that reinforce the key terms and concepts from each chapter.
<b>PowerPoint Slides</b>	For a study recap, students can view all of the instructor PowerPoint slides online.
<b>Additional LAB BOOK Resources</b>	On the LAB BOOK platform, comprehension questions are sprinkled throughout each chapter of the eBook, and detailed section summaries (and case summaries) are included in the lab. Study tools such as text highlighting and margin notes are also available. These resources are not available in BVT <i>Lab</i> .



## BVTLab

BVTLab is an affordable online lab for instructors and their students. It includes an online classroom with grade book and class forum, a homework grading system, extensive test banks for quizzes and exams, and a host of student study resources.

<b>Course Setup</b>	BVTLab has an easy-to-use, intuitive interface that allows instructors to quickly set up their courses and grade books and to replicate them from section to section and semester to semester.
<b>Grade Book</b>	Using an assigned passcode, students register into their section's grade book, which automatically grades and records all homework, quizzes, and tests.
<b>Class Forum</b>	Instructors can post discussion threads to a class forum and then monitor and moderate student replies.
<b>Student Resources</b>	All student resources for this textbook are available in digital form within BVTLab. Even if a class is not taught in the lab, students who have purchased lab access can still use the student resources in the lab.
<b>eBook</b>	BVTLab includes both a webBook™ and a downloadable eBook (on the VitalSource® platform). For some product bundles, BVT's LAB BOOK can also be accessed from within BVTLab, offering enhanced eBook features and study tools for students, as described below.

## LAB BOOK

LABBOOK is a web-based eBook platform with an integrated lab providing comprehension tools and interactive student resources. Instructors can build homework and quizzes right into the eBook. LABBOOK is either included with eBook<sup>Plus</sup> or offered as a stand-alone product.

<b>Course Setup</b>	LABBOOK uses the BVTLab interface to allow instructors to set up their courses and grade books and to replicate them from section to section and semester to semester.
<b>Grade Book</b>	Using an assigned passcode, students register into their section's grade book, which automatically grades and records all homework, quizzes, and tests.
<b>Advanced eBook</b>	LABBOOK is a mobile-friendly, web-based eBook platform designed for PCs, Macs, tablets, and smartphones. LABBOOK allows highlighting, margin notes, and a host of other study tools
<b>Student Resources</b>	All student resources for this textbook are available in the LABBOOK, as described in the <b>Student Resources</b> section above.

## Customization

BVT's Custom Publishing Division can help you modify this book's content to satisfy your specific instructional needs. The following are examples of customization:

- Rearrangement of chapters to follow the order of your syllabus
- Deletion of chapters not covered in your course
- Addition of paragraphs, sections, or chapters you or your colleagues have written for this course
- Editing of the existing content, down to the word level
- Customization of the accompanying student resources and online lab
- Addition of handouts, lecture notes, syllabus, and so forth
- Incorporation of student worksheets into the textbook

All of these customizations will be professionally typeset to produce a seamless textbook of the highest quality, with an updated table of contents and index to reflect the customized content.