**DESCRIPTION**

This text is an unbound, binder-ready edition.

*Microbiology: Principles and Explorations* has been a best-selling textbook for several editions due to the authors engaging writing style where her passion for the subject shines through the narrative. The 9th edition’s student-friendly approach provides readers with an excellent introduction to the study of Microbiology. This text is appropriate for non-major and mixed major microbiology courses, as well as allied health, agriculture and food sciences courses. The 9th edition has updated and improved the chapter opening Concept Compass which provides students with the key concepts and highlights where animations are available in the WileyPLUS course for each concept. Content and chapter openers have been updated throughout the narrative of the text to amplify the author’s unique ability to take the reader on a microbiology adventure.

WileyPLUS sold separately from text.

**ABOUT THE AUTHOR**

Jacquelyn Black received her B.A., B.S., M.S. from the University of Chicago and her Ph.D. from Catholic University of America. She has been teaching microbiology to undergraduates since 1970. She is a member of the American Society for Microbiology, and she has received grants for conducting teacher-training programs.
In May of 2000, the Washington Academy of Sciences gave Jackie the Leo Schubert Award for Excellence in Teaching of Science in College. This award is given for exceptional teaching and writing in the field of microbiology, with particular emphasis on the teaching of undergraduate students.

In addition to her extensive teaching experience, Dr. Black has engaged in fieldwork and studies throughout the globe. Her travels have taken her from the interior of Iceland to Belgium, Germany, Lappland, China, South America, Portugal, the barrier reef of Belize, and most recently to over a dozen universities in Russia.

Dr. Black describes herself as an "incorrigible snoop," interested in all the various aspects and applications of microbiology. This natural curiosity, coupled with her classroom and laboratory experience, makes her uniquely qualified to author an introductory microbiology textbook. This book conveys her sense of excitement for microbiology and offers the most current information on developments and applications within this field.

## RELATED RESOURCES

### Student

View Student Companion Site

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## NEW TO EDITION

- Concept Compass: The 9th edition has updated and improved the chapter opening Concept Compass which provides students with the key concepts and highlights where animations are available in the WileyPLUS course for each concept. Students will be able to easily navigate through the text and identify key sections which require review and practice, and where to find the related study tools.

- Chapter Opener Vignettes amplify the author’s unique ability to take the reader on a microbiology journey. These two page chapter openers engage students into the chapter by drawing a connection to hot issues in the field, applications and factoids of high interest.

- Content has been updated throughout the narrative of the text. This updating also includes some of the artwork and micrographs presented throughout the text.
FEATURES

With an accurate and informative art program, the text includes artwork produced by award winning medical illustrators and photographs that have been personally researched and identified by the author. This title is written by a microbiologist, who teaches microbiology on a consistent basis in addition to her responsibilities in the scientific community. Supportive pedagogical aids also help foster a student’s understanding of the subject matter and its applications.

WileyPLUS is a research-based online environment for effective teaching and learning. WileyPLUS is packed with interactive study tools and resources—including the complete online textbook—to give your students more value for their money. With WileyPLUS, students will have an extensive use of applications to relate to throughout the narrative of every chapter that helps them comprehend key principles. Examples include “pimples that can lead to septicemia if squeezed” and “involuntary drunkenness caused by yeast fermenting in stomach food”. Informal, student-centered writing style serves more as a narrative for students exploring microbiology than as a textbook that reads as a list of facts.

WileyPLUS is now equipped with an adaptive learning module called ORION. Based on cognitive science, WileyPLUS with ORION, provides students with a personal, adaptive learning experience so they can build their proficiency on topics and use their study time most effectively. WileyPLUS with ORION helps students learn by learning about them.

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