### DESCRIPTION

*Visualizing Human Biology* is a visual exploration of the major concepts of biology using the human body as the context. Students are engaged in scientific exploration and critical thinking in this product specially designed for non-science majors. Topics covered include an overview of human anatomy and physiology, nutrition, immunity and disease, cancer biology, and genetics. The aim of *Visualizing Human Biology* is a greater understanding, appreciation and working knowledge of biology as well as an enhanced ability to make healthy choices and informed healthcare decisions.

### ABOUT THE AUTHOR

*Kathleen A. Ireland* obtained her B.S. from the University of Alabama while gaining experience working both for a major pharmaceutical company and for a Marine Sciences Foundation in Florida. She continued her education at the University of Alabama, earning an M.S. in Marine Sciences in 1981. After a few years working for an agricultural genetics corporation and giving birth to two sons, Kathleen returned to school, earning a Ph.D. from Iowa State University while teaching their Human Biology course. She later moved to Maui where she currently resides while teaching human biology for the University of Hawaii, Maui.
Community College. Kathleen is a member of a number of academic organizations, including the AACE, where she serves on their editorial board. She has been a contributing author on both anatomy and anatomy and physiology premedical textbooks and several grants including a multi-year HAIS / HCF grant to enhance the school-wide teaching of 21st-century skills.

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NEW TO EDITION

- **Mind Map Activities**: These activities at the end of each course section are designed to engage students in critical thinking about the concepts and key terminology covered in the section and help students explore the relationships between them.

- **New Course Section on Human Microbiomes**: A new section covers general characteristics of human microbiomes, the communication methods of the microbiome constituent bacteria, their contributions to homeostasis, and the physiological processes affected by the microbiome communities.

FEATURES

- **ORION Adaptive Practice**: Every student has a different starting point, and adaptive practice provides endless opportunities for practice to effectively prepare for class or quizzes and exams. Active retrieval of information with practice questions is proven to improve retention of information better than re-reading or reviewing the material, and students who use adaptive practice to prepare for exams do significantly better than those who do not. Students begin with a quick, chapter-level diagnostic to determine their initial level of understanding, and they can use the dashboard and quick reports to see what topics they do and don’t know.

- **Mind Map Activities**: These activities at the end of each course section are designed to engage students in critical thinking about the concepts and key terminology covered in the section and help students explore the relationships between them.
- **Key Processes**: Key processes are highlighted throughout the course and help students organize their learning. The five processes that are key to most of the physiology presented in this course are: osmosis and diffusion, energy storage and transfer, DNA, protein structure and function, and cellular structure and function.

- **Animated Concepts**: Students can view over 150 animations to help them visualize the key concepts in the course.

- **Visual Podcasts**: Designed around the course learning objectives, these podcasts provide audio narration coupled with visuals to drill into the core concepts of each course section.

- **Interactive Process Diagrams**: Interactive process diagrams provide additional visual examples as well as descriptive narratives of the diagrams that appear throughout the course. Interactive process diagrams allow students to build the process interactively to be sure they fully understand the process.

- **Built in Study Guides**: Study guides teach students how to read visuals more effectively along with better study habits. Each course section starts with a guided tour which includes a section outline and section planner. Concept check questions at the end of all sections cover the learning objectives.

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**SERIES**

**Visualizing Series**

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