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Biology Human Heredity: Principles and Issues (MindTap Course List) The Smiths had just given birth to their second child and were eagerly waiting to take the newborn home. At that moment, their obstetrician walked into the hospital room with some news about their daughter's newborn screening tests. The physician told them that the state's mandatory newborn screening test had detected an ...

HUMAN HEREDITY presents the concepts of human genetics in clear, concise language and provides relevant examples that you can apply to yourself, your family, and your work environment. Author Michael Cummings explains the origin, nature, and amount of genetic diversity present in the human population and how that diversity has been shaped by natural selection. The artwork and accompanying media visually support the material by teaching rather than merely illustrating the ideas under discussion. Examining the social, cultural, and ethical implications associated with the use of genetic technology, Cummings prepares you to become a well-informed consumer of genetic-based health care services or provider of health care services. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This introduction to human heredity/genetics for the non-science major requires no previous exposure to biology, chemistry, or mathematics. It covers the latest research and technological advances in human genetics and the implications of this knowledge on the human condition (social, cultural, and ethical). Now full-color throughout, the Fourth Edition includes significant content revision and features chapter opening prologues, more clinical material woven throughout the text, and less technical jargon. Short case studies and Internet activities end many chapters, and end-of-chapter exercise sets are new.

Chapter summaries, learning objectives, and key terms along with multiple choice, fill-in-the-blank, true/false, discussion, and case study questions help students with retention and better test results. Prepared by Nancy Shontz of Grand Valley State University. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This Updated 7th edition features a new section, Genetic Control, at the end of the text. This section complements Cummings' coverage with a series of cases from noted medical ethicist, Dr. Ronald Munson, which investigate the issues surrounding the stem-cell debate, genetic counseling, genetic testing and reproductive decisions, and gene therapy. These cases are reinforced with original readings from other noted geneticists, ethicists, and medical policy makers. The result is a text that will draw students into the most current research in genetics and educate them on the latest challenges facing physicians, researchers, and society. Instructors will find this Seventh Edition of HUMAN HEREDITY current, clear, and complemented by an amazing array of technology for students and instructors. Additional student support includes Human GeneticsNow, a password-protected website integrated with the Seventh Edition that provides students with access to diagnostic Pre-Tests and Post-Tests for each chapter. It automatically generates customized learning plans for students, directing them to text information and ancillaries that help them master specific concepts. Active Figures in the text, indicated by a media icon, have corresponding narrated animations on the Human GeneticsNow site that are included in the customized Learning Plan along with additional animations and media assets. For instructors, a Multimedia Manager provides all of the art and photos from the text in PowerPoint form, and, lectures can be further enhanced by using animations and videos on human heredity topics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Helping undergraduates in the analysis of genetic problems, this work emphasizes solutions, not just answers. The strategy is to provide the student with the essential steps and the reasoning involved in conducting the analysis, and throughout the book, an attempt is made to present a balanced account of genetics. Topics, therefore, center about Mendelian, cytogenetic, molecular, quantitative, and population genetics, with a few more specialized areas. Whenever possible, the student is provided with the appropriate basic statistics necessary to make some the analyses. The book also builds on itself; that is, analytical methods learned in early parts of the book are subsequently revisited and used for later analyses. A deliberate attempt is made to make complex concepts simple, and sometimes to point out that apparently simple concepts are sometimes less so on further investigation. Any student taking a genetics course will find this an invaluable aid to achieving a good understanding of genetic principles and practice.

Chapter summaries, learning objectives, and key terms along with multiple choice, fill-in-the-blank, true/false, discussion, and case study questions help students with retention and better test results. Prepared by Nancy Shontz of Grand Valley State University. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Written by Nancy Shontz, this supplement is intended to help students enhance their understanding of the text and course material. Elements include chapter summaries, learning objectives, lists of terms, case worksheets (based on case studies in the text), discussion problems & questions, and other practice test items in multiple-choice, fill-in-the-blanks, as well as editing questions. This supplement is about 185 pages in length.