

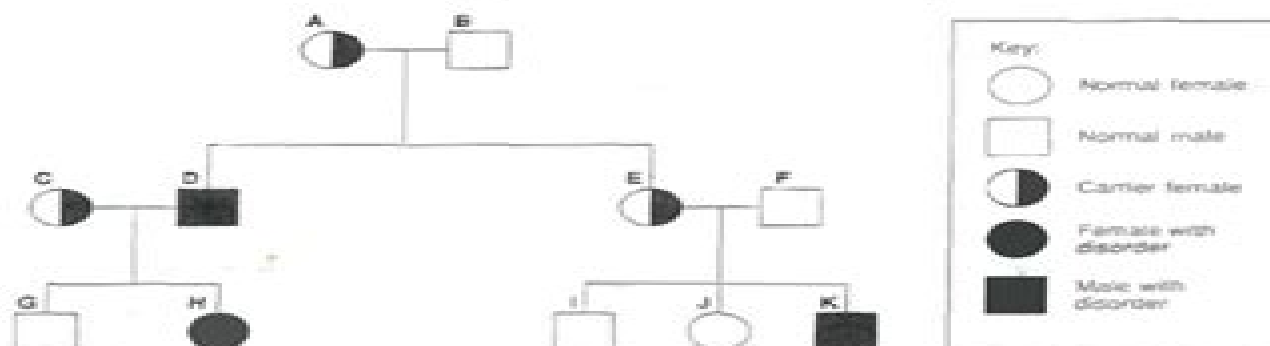
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CHAPTER 11

Human Heredity
Section 11-3SKILL ACTIVITY
Interpreting diagrams

Applied Genetics

A. Duchenne muscular dystrophy is a deadly disorder in which the muscles grow progressively weaker. The disease is caused by a recessive gene on the X chromosome. The pedigree chart below illustrates the inheritance of this gene. Use the chart to answer the questions that follow.



1. Is Duchenne muscular dystrophy more likely to occur in males or in females? Explain your answer.

Males because they only have 1 X chromosome that needs the recessive allele

2. Individual H is a female with this disorder. Explain how she inherited this disease.

Her father gave her his X chromosome with the recessive allele & her mom was a carrier.

3. Individual K has this disorder, yet his father did not. Explain how this is genetically possible.

Individual K got his X chromosome from his mom, not his dad.

4. Individual G does not have the disease, yet his mother was a carrier and his father had the disease. Explain how this is possible.

Individual G got the Y chromosome from his dad and the X without the disease from his mom.

Applied Genetics Human Heredity Answers

Hans-Walter Schmuhl



Applied Genetics Human Heredity Answers:

Human Heredity Eldon John Gardner, 1983 , *Applied Basic Sciences Questions-Answers* Mr. Rohit Manglik, 2024-07-30 A comprehensive collection of exam oriented questions and answers across subjects like anatomy physiology and biochemistry ideal for medical students and entrance exams *Teaching Genetics* Michael Matthew Sampson, 2002 *The Heredity Hoax* Richard M. Lerner, Gary Greenberg, 2025-01-30 This innovative and thought provoking book integrates both new authored material and reprints of existing literature that together provide a compelling narrative that reveals the fatally flawed science associated with genetic reductionist accounts of human behavior and development Through an interdisciplinary lens it illuminates the dynamic nature of human development empowering readers to question established notions and embrace the complexity of our potential Across the book the work of top tier scientists from developmental comparative educational and biological science illuminates theory and research converging on the conclusion that the multiple egregiously flawed work of genetic reductionists should be expunged from research pertinent to human development The book challenges the prevailing reductionist narratives and their application to social policies programs and uses in media Theoretically based and empirically rigorous this multidisciplinary approach to human development will shine a light on the inequities in individuals or groups that suggest that specific genes do not enable them to succeed in life The Heredity Hoax invites graduate programs and advanced undergraduate courses on human development human potential epigenetics and more to delve into the intricate interplay between genes environment and personal growth This will also serve as an unimpeachable source of evidence for researchers educators and social policymakers *The Kaiser Wilhelm Institute for Anthropology, Human Heredity and Eugenics, 1927-1945* Hans-Walter Schmuhl, 2008-01-14 When the Kaiser Wilhelm Institute for Anthropology Human Heredity and Eugenics opened its doors in 1927 it could rely on wide political approval In 1933 the institute and its founding director Eugen Fischer came under pressure to adjust which they were able to ward off through Selbstgleichschaltung auto coordination The Third Reich brought about a mutual beneficial servicing of science and politics With their research into hereditary health and racial policies the institute s employees provided the Brownshirt rulers with legitimating grounds This volume traces the history of the Kaiser Wilhelm Institute for Anthropology Human Heredity and Eugenics between democracy and dictatorship Attention is turned to the haunting transformation of the research program the institute s integration into the national and international science panorama and its relationship to the ruling power The volume also confronts the institute s interconnection to the political crimes of Nazi Germany terminating in bestial medical crimes *Resources for Teaching Middle School Science* Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them *Resources for Teaching*

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