

Table 11.2

# Recessive Genetic Disorders in Humans

Disorder	Cystic fibrosis	Albinism
Occurrence in the U.S.	1 in 3500	1 in 17,000
Cause	The gene that codes for a membrane protein is defective.	Genes do not produce normal amounts of the pigment melanin.
Affect	<ul style="list-style-type: none"> <li>Excessive mucus production</li> <li></li> </ul>	<ul style="list-style-type: none"> <li></li> <li></li> <li>Vision problems</li> </ul>
Cure/Treatment	<ul style="list-style-type: none"> <li>No cure</li> <li>Daily cleaning of mucus from the lungs</li> <li>Mucus-thinning drugs</li> <li>Pancreatic enzyme supplements</li> </ul>	<ul style="list-style-type: none"> <li>No cure</li> <li>Protect skin from the Sun and other environmental factors</li> <li>Visual rehabilitation</li> </ul>

No color in the skin, eyes and hair

Digestive and respiratory failure

Skin susceptible to UV damage

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# Chapter 11 Human Heredity Section 3 Applied Genetics

**Jiyuan Zhang**



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Teacher's Guide to the Modern Biology Program James Howard Otto, Albert Towle, Elizabeth H. Crider, 1965      BOPOD - Wong's Nursing Care of Infants and Children Marilyn J. Hockenberry, David Wilson, 2014-01-30 The most trusted authority in pediatric nursing Wong's Nursing Care of Infants and Children provides unmatched comprehensive coverage of pediatric

growth development and conditions Its unique age and stage approach covers child development and health promotion as well as specific health problems organized by age groups and body systems Leading pediatric experts Dr Marilyn Hockenberry and David Wilson provide an evidence based clinical perspective based on nearly 30 years of hands on experience Easy to read and extensively illustrated this edition focuses on patient centered outcomes and includes updates on topics such as the late preterm infant immunizations the H1N1 virus and childhood obesity A clear straightforward writing style makes content easy to understand Unique Evidence Based Practice boxes help you apply both research and critical thought processes to support and guide the outcomes of nursing care Unique Atraumatic Care boxes contain techniques for care that minimize pain discomfort or stress Unique Critical Thinking exercises help you test and develop your own analytical skills A unique focus on family content emphasizes the role and influence of the family in health and illness with a separate chapter discussions throughout the text and family centered care boxes Nursing Care Guidelines provide clear step by step detailed instructions on performing specific skills or procedures Unique Emergency Treatment boxes serve as a quick reference for critical situations Unique Cultural Awareness boxes highlight ways in which variations in beliefs and practices affect nursing care for children A developmental approach identifies each stage of a child s growth Health promotion chapters emphasize principles of wellness and injury prevention for each age group Student friendly features include chapter outlines learning objectives key points references and related topics and electronic resources to help you study and review important content A community focus helps you care for children outside the clinical setting Nursing Care Plans include models for planning patient care with nursing diagnoses patient family goals nursing interventions rationales expected outcomes and NIC and NOC guidelines Nursing Tips include helpful hints and practical clinical information and Nursing Alerts provide critical information that must be considered in providing care

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$\omega^2 r^2 z^2$  where  $\omega$  is the rotating speed in frequency units  $1/s$  as  $u_x u_y$  where  $x, y, i$  understand is applying the magnitude of the  $u$  vector at every point of the domain as the

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