# Section 12 4 Mutations Pages 307 308 Introduction Page

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# **Section 12 4 Mutations Pages**

#### Section 12-4 Mutations - Hanover Area School District

Section 12-4 Mutations(pages 307-308) This section describes and compares gene mutations and chromosomal mutations Introduction (page 307) 1 What are mutations? Mutations are changes in the DNA sequence that affect genetic information 2 Is the following sentence true or false? Chromosomal mutations result from changes in a single gene

# Section 12-4 Mutations - Houston Independent School ...

Section 12-4 Mutations(pages 307-308) TEKS FOCUS:6C Identify and illustrate how changes in DNA cause mutations, and evaluate significance of these changes This section describes and compares gene mutations and chromosomal mutations Introduction (page 307) 1 What are mutations? Mutations are changes in the DNA sequence that affect genetic

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Section 12-4 Mutations (pages 307-308) Key Concept • What are mutations? Introduction (page 307) 1 What are mutations? 2 Is the following sentence true or false? Chromosomal mutations result from changes in a single gene Kinds of Mutations (pages 307-308) 3 Mutations that occur at a single point in the DNA sequence are mutations 4

#### Section 12-4 Mutations (pages 307-308) Introduction ...

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### Section 12-4 Mutations (pages 307-308) - PC\|MAC

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#### 12-4 Mutations Section 12-4 - Gravette School District

12-4 Section Assessment 12-4 12-4 Section Assessment 1 A change in genetic material 2 Mutations can be harmful by producing defective proteins that disrupt normal biolog-ical activities Mutations are also the source of genetic variability and can be beneficial 3 Two kinds of frameshift mutations are inser-tions and deletions 4

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#### Section 12-1 DNA (pages 287-294) This section tells about ...

Section 12-4 Mutations (pages 307-308) This section describes and compares gene mutations and chromosomal mutations Introduction (page 307) 38 What are mutations? Gene Mutations (pages 307-308) 39 What is a point mutation? 40 A mutation involving the ...

# Section 12-3 RNA and Protein Synthesis (pages 300-306)

Section 12–3 RNA and Protein Synthesis (pages 300–306) This section describes RNA and its role in transcription and translation The Structure of RNA (page 300) 1 Section 12–4 Mutations (pages 307–308) This section describes and compares gene mutations and chromosomal mutations Introduction (page 307) 1

#### **Section 12-1 DNA**

Chapter 12 DNA and RNA Section 12–1 DNA (pages 287–294) This section tells about the experiments that helped scientists discover the relationship between genes and DNA It also describes the chemical structure of the DNA molecule Griffith and Transformation (pages 287–289) 1

#### **Section 12-3 RNA and Protein Synthesis**

Section 12–3 RNA and Protein Synthesis (pages 300–306) This section describes RNA and its role in transcription and translation The Structure of RNA(page 300) 1 List the three main differences between RNA and DNA a RNA has ribose sugar instead of deoxyribose b RNA is generally single-stranded, instead of double-stranded

#### **Section Name Date 4.2 Mutations**

Section 42 Mutations Summary Textbook pages 136–145 Before You Read What do you think of when you read or hear the word "mutation?" Is mutation always harmful? Is mutation always helpful? 12 Which of the following can cause mutated genes? I cigarette smoke II radiation III pesticides A I and II only B I and III only

#### **Bio07 TR U04 CH12**

Section 12-4 Mutations (pages 307-308) Key Concept • What are mutations? Introduction (page 307) 1 What are mutations? 2 Is the following sentence true or false? Chromosomal mutations result from changes in a single gene Kinds of Mutations (pages 307-308) 3 Mutations that occur at a single point in the DNA sequence are mutations 4

## Ch 12.DNA and RNA.Biology.Landis

Ch 12DNA and RNABiologyLandis Section 12-4 Mutations (pages 307-308) This section describes and compares gene mutations and chromosomal mutations Introduction (page 307) 38 What are mutations? Gene Mutations (pages 307-308) 39 What is a point mutation? 40 A mutation involving the insertion or deletion of a nucleotide is a(an)

#### Section Name Date 4.1 The Function of the Nucleus within

Name Date © 2007 McGraw-Hill Ryerson Limited Section 41 The Function of the Nucleus within the Cell • MHR 61 Assessment Section 41 Use with textbook pages 121

# Use with textbook pages 136-141. Mutations concept map

Mutations that are helpful to an organism are called For instance, some plants carry a mutated gene that protects them from disease 7 Mutations that have no effect on an organism are called 8 New techniques for treating gene mutations are called and may involve replacing a with a Cloze Activity Section 42