أسئلة مراجعة الدرس الخامس inheritance of patterns Complex من الوحدة الأولى

تم تحميل هذا الملف من موقع المناهج الإماراتية	
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف الثاني عشر المتقدم ⇦ علوم ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف	
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المزيد من مادة علوم:	ملفات ا كتب للمعلم ا كتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس
	إعداد: Gelgel Omar

التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف الثاني عشر المتقدم والمادة علوم في الفصل الأول	
1	شرح وملخص وحدة الوراثة المعقدة والوراثة البشرية
2	حل نموذج اختبار تجريبي وفق الهيكل الوزاري
3	نموذج اختبار تجريبي وفق الهيكل الوزاري
4	حل مراجعة الوحدة الأولى الوراثة البشرية والمعقدة منهج انسباير
5	حل مراجعة الدرسين الأول والثاني من الوحدة الأولى الوراثة البشرية والمعقدة

GRADE 12 ADV

unit 1 Lesson 5 : Complex patterns of inheritance

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In codominance, which of the following outcomes is observed in the heterozygous state?

- A. Complete dominance of one allele over the other
- B. Intermediate blending of traits
- C. Both alleles are fully expressed simultaneously
- D. Suppression of one allele by epistasis

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Which pattern of inheritance results in a 1:2:1 phenotype ratio in offspring of two heterozyg individuals?

- A. Mendelian dominance
- B. Codominance
- C. Incomplete dominance
- D. Sex-linked inheritance

In the context of epistasis, which genotype combination would result in a yellow Labrador retriever?

- A. Eebb
- B. eeB_
- C. EeBb

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A woman with type AB blood has a child with a man with type O blood. What are the possible blood types of the child?

- A. AB only
- B. A and B only
- C. A, B, and O
- D. AB and O only

Dosage compensation, a process that balances gene expression between sexes, involves which mechanism in mammals?

- A. Autosomal gene silencing
- B. X-inactivation in females
- C. Y-inactivation in males
- D. Extra gene copies for males

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If a cross between two plants with incomplete dominance results in 25% red, 50% pink, and 25% white offspring, what are the genotypes of the parents?

- A. Both parents are heterozygous
- B. One parent is homozygous red, the other homozygous white
- C. Both parents are homozygous pink
- D. Both parents are homozygous red

In blood type inheritance, which two terms describe this pattern?

- A. Polygenic and codominant
- B. Multiple alleles and codominance
- C. Epistasis and incomplete dominance
- D. Multiple alleles and Mendelian dominance

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What phenotype results in a calico cat due to X-inactivation?

- A. Uniform color based on the maternal X chromosome
- B. Mosaic color patterns from inactivated X chromosomes
- C. Color patterns based on the paternal X chromosome
- D. Color determined solely by the dominant allele

How is hemophilia inherited?

- A. Autosomal dominant
- B. Autosomal recessive
- C. X-linked recessive
- D. Y-linked dominant

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Which genotype must an individual have to display the albino phenotype?

- A. Homozygous dominant
- B. Homozygous recessive
- C. Heterozygous dominant
- D. Heterozygous recessive

If a gene for coat color in rabbits follows a hierarchy of dominance, which phenotype would be expressed in a rabbit with genotype $C^c\ c^h$?

- A. Full color
- B. Himalayan
- C. Albino
- D. Chinchilla

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The presence of a Barr body in a cell indicates:

- A. The individual is male
- B. X-inactivation has occurred
- C. The individual is heterozygous for a trait
- D. Autosomal inheritance is involved

Which of the following best describes polygenic inheritance?

- A. A single gene affects multiple traits
- B. Multiple genes contribute to a single trait
- C. An interaction where one gene masks another
- D. Both alleles are equally expressed

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Which statement best describes epistasis?

- A. It occurs when one allele changes another allele's genotype
- B. It involves a gene that masks the expression of another gene
- C. It results in blending of two phenotypes
- D. It only occurs in sex-linked traits

In rabbits, which genotype would result in an albino phenotype?

- A. C^hC
- B. cc
- C. C^cC
- D. C^cC^h

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How does the environment play a role in polygenic traits like skin color?

- A. It changes the genotype directly
- B. It influences the phenotype expression of multiple genes
- C. It has no impact on genetically determined traits
- D. It determines the alleles an individual inherits

If a person has type A blood and is known to be heterozygous, what are the possible blood types of their children if the other parent has type O blood?

- A. A and B only
- B. A and O only
- C. AB and A only
- D. O and B only

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Which genetic disorder is more common in males due to its inheritance pattern?

- A. Cystic fibrosis
- B. Hemophilia
- C. Tay-Sachs disease
- D. Huntington's disease

Which genetic concept helps explain why some traits appear more frequently in identical twins compared to non-identical twins?

- A. Polygenic inheritance
- B. Environmental influence
- C. Mendelian dominance
- D. Genetic predisposition

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