تم تحميل هذا الملف من موقع المناهج الإماراتية





ملخص وشرح الدرس الثاني Recombination Genetic الجينات المترابطة والخرائط الكروموسومية

موقع المناهج ← المناهج الإماراتية ← الصف الثاني عشر المتقدم ← علوم ← الفصل الأول ← الملف

تاريخ إضافة الملف على موقع المناهج: 24-09-2024 13:16:38

إعداد: أحمد الحداد

التواصل الاجتماعي بحسب الصف الثاني عشر المتقدم









<u>اضغط هنا للحصول على جميع روابط "الصف الثاني عشر المتقدم"</u>

روابط مواد الصف الثاني عشر المتقدم على تلغرام

التربية الاسلامية اللغة العربية العربية الرياضيات الرياضيات

المزيد من الملفات بحسب الصف الثاني عشر المتقدم والمادة علوم في الفصل الأول

شرح درس Inheritance Of Patterns Complex الأنماط	1
الوراثية المعقدة الجزء الأول	
عرض بوربوينت درس السيادة المشتركة	2
عرض بوربوينت درس الأنماط الوراثية المعقدة	3

المزيد من الملفات بحسب الصف الثاني عشر المتقدم والمادة علوم في الفصل الأول	
كتاب الطالب الوحدة الأولى علم الوراثة والتقنيات الحيوية	4
امتحان نهاية الفصل الأول 2017	5

11-9-2074

Aller gene.

20 Amino acids

(Noduce

10 000 Proteins

Furctuery for

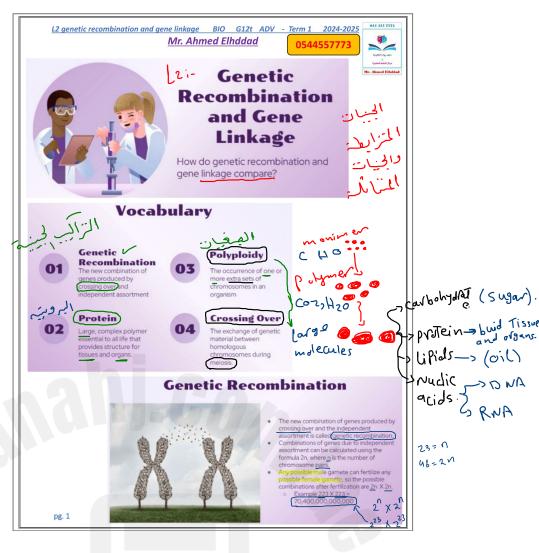
rissues and
organs.

genetic material

protein

DNA

inside nucleus





27 Hb chromosomes.

23 P 23 P

Du chanosomes

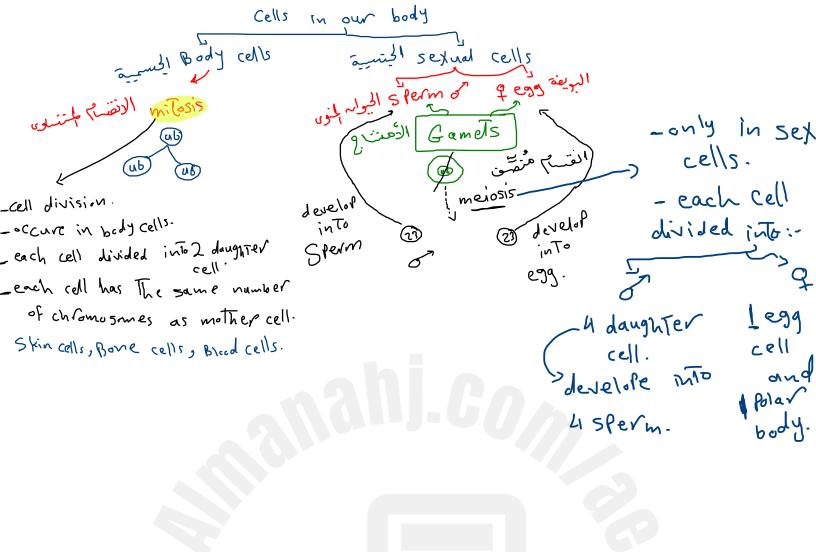
Humans

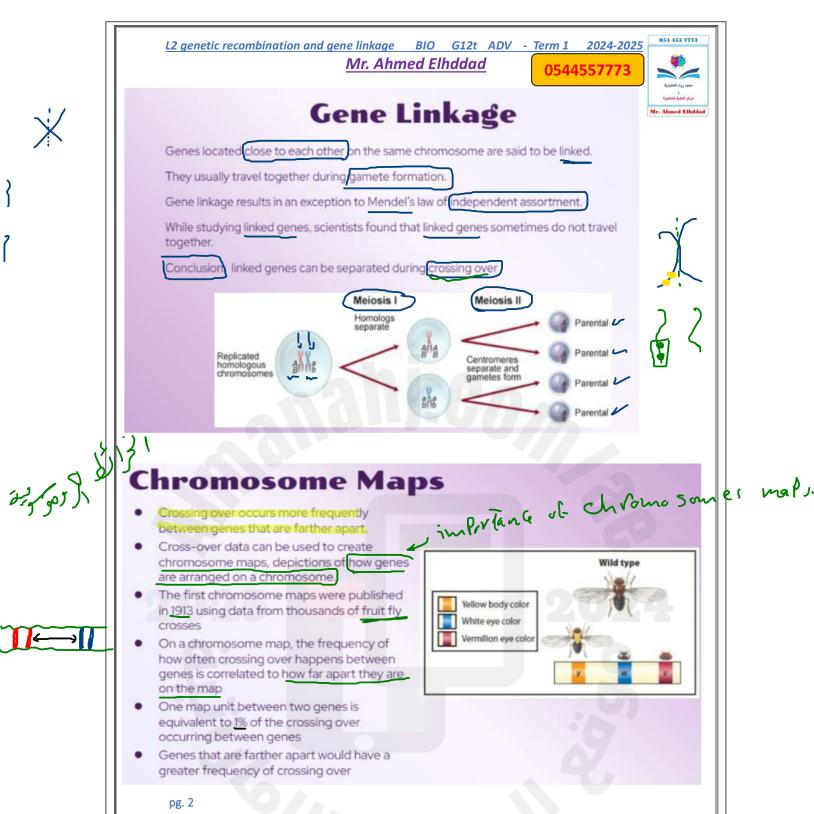
n = 23

2m = 46

31=46+1

2025 C: 2024 9



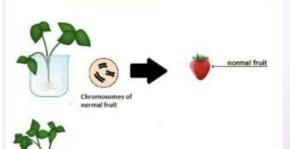


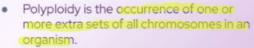
L2 genetic recombination and gene linkage BIO G12t ADV - Term 1 2024-2025 Mr. Ahmed Elhddad

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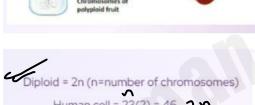




- A triploid organism is designated 3n. which means that it has three complet sets of chromoson
- In humans polyploidy is lethal
- Many agricultural crops are polyploid.
- Wheat (6n), oats (6n), and sugar cane
- Polyploid plants often have increased vigor and size

V = 2n ‡ 31

STramberry 3m



Human cell = 23(2) = 46 2n

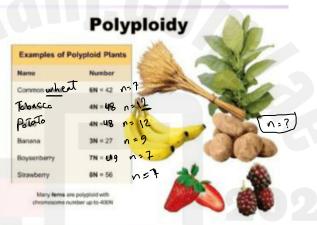
Somatic or body cells = 46 2.

Haploid = n

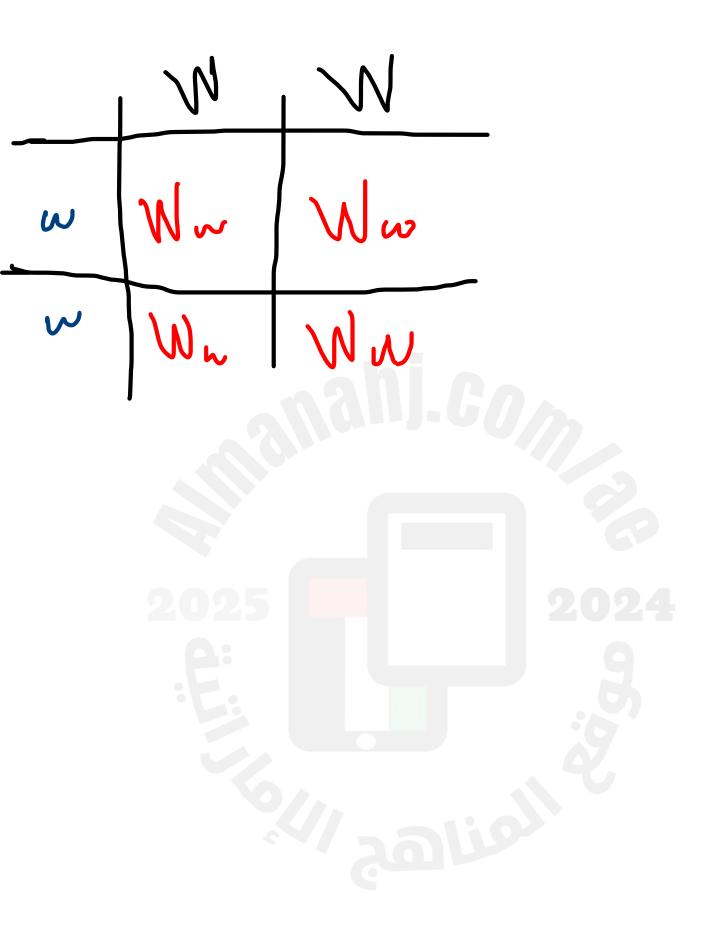
Human cell = 23

Sperm or egg = gametes





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4. What is genetic recombination?

- The combination of genes produced by crossing over and independent assortment.
- c) A map that shows the sequence of genes on a chromosome.
- b) The occurrence of one or more extra sets of chromosomes.
- d) When genes located close to each other on the same chromosome tend to travel together during meiosis.

5. Why is genetic recombination a good thing?

- a) Gives us new genes
- c) is lethal in humans
- 7. What is gene linkage?
 - The combination of genes produced by crossing over and independent assortment.
 - c) A map that shows the sequence of genes on a chromosome.
- b) When genes located close to each other on the same chromosome tend to travel together during
- d) The occurrence of one or more extra sets of chromosomes.

b) separates during crossing over

d) increases genetic variation

9. What is a chromosome map?

- The combination of genes produced by crossing over and independent assortment.
- The occurrence of one or more extra sets of chromosomes.
- A map that shows the sequence of genes on a chromosome.
- d) When genes located close to each other on the same chromosome tend to travel together during meiosis.

12. What is polyploidy?

- The occurrence of one or more extra sets of chromosomes.
- c) A map that shows the sequence of genes on a chromosome.
- The combination of genes produced by crossing over and independent assortment.
- d) When genes located close to each other on the same chromosome tend to travel together during meiosis.

What is a Test Cross?

- a) Breeding 2 closely related organisms.
- b) A process of selecting desired traits to be passed on to offspring.
- breeding an organism with a known genotype with an unknown genotype and using the offspring to determine the unknown.
- d) Breeding organisms to create hybrids.



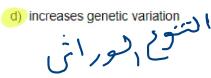
L2 genetic recombination and gene linkage BIO G12t ADV - Term 1



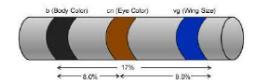
Mr. Ahmed Elhddad

- Why is genetic recombination a good thing?
 - a) Gives us new genes
 - c) separates during crossing over

- b) is lethal in humans





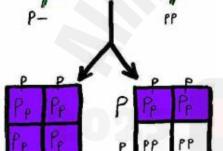


What is this an example of?

- a) Chromosome tree
- c) Different alleles

- Chromosome map
- d) Gene linkage

7.



This is an example of what?

- a) Gene Linkage

- b) Test Cross
- d) Chromosome Map

- c) Inbreeding
- What is gene linkage?
 - a) The combination of genes produced by crossing over and independent assortment.
 - c) When genes located close to each other on the same chromosome tend to travel together during
- b) A map that shows the sequence of genes on a chromosome.
- d) The occurrence of one or more extra sets of chromosomes.



pg. 5

