

NOME:.....TURMA: 7º Ano "....."

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PROF.: ROGÉRIO

TRADUÇÃO DE TEXTO

GENETICS



Many attempts have been made throughout history to explain the similarity between parents and children. People thought, for instance, that the substances responsible for heredity came from the blood of both parents and were mixed together in the child. This idea can be found in expressions like "royal blood" or "bloodline". Another theory suggested the existence of a miniature copy of the father in his reproductive cells. But we know, today, that heredity is carried by the genes, which are chromosome sectors transmitted from parents to children. The basic laws of heredity are studied by genetics. These laws were stated by Augustinian monk Gregor Jonathan Mendel (1822-1884) in a monastery in the city of Brünn, Austria (now a Czech territory).

Mendel used peas in his experiments because they could be easily observed. He cross-pollinated round peas with wrinkled peas. As a result, two thirds of the peas had pods containing both round and wrinkled peas. Mendel's experiment demonstrated that the gametes (ovule and pollen grain in plants, egg cells and spermatozoa in animals) contain some factors (genes) that are responsible for the appearance of characters in the organism. When fertilization occurs, the genes carried by the male are combined with those carried by the female. The new plant inherits half of its genes from each parent.

FONTE: Graded English: volume único: livro do professor/Elizabeth Prescher Martins, Ernato Pasqualin, Eduardo Amos – São Paulo: Moderna, 1993.

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GLOSSARY

A: um, uma
AND: e
ANIMALS: animais
ANOTHER: Outra
APPEARANCE: aparecimento
ARE: são
AS A RESULT: como resultado
ATTEMPTS: tentativas
AUGUSTINIAN MONK: Monge Augustiniano
AUSTRIA: Áustria
BASIC LAWS: leis básicas
BE: ser
BECAUSE: porque
BETWEEN: entre
BLOOD: sangue
BLOODLINE: linhagem
BOTH: ambas, ambos os
BUT: mas
BY THE: pela, pelo, pelos
BY: pela, pelo
CAME: provinham
CAN: pode
CARRIED: carregada, carregados
CHARACTERS: caracteres
CHILD: criança
CHILDREN: filhos
CHROMOSOME SECTORS: setores cromossômicos
CITY: cidade
COMBINED: combinados
CONTAIN: contém
CONTAINING: contendo
COULD: podiam
CROSS-POLLINATED: fez polinização cruzada de
CZECH TERRITORY: território tcheco).
DEMONSTRATED: demonstrou
EACH: cada
EASILY: facilmente
EGG CELLS: óvulos
EXISTENCE: existência
EXPERIMENTS: experimentos
EXPLAIN: explicar
EXPRESSIONS: expressões
FACTORS: fatores
FATHER: pai
FEMALE: fêmea
FERTILIZATION: a fertilização
FOR THE: pelo
FOR: por
FOUND: encontrada
FROM THE: do
FROM: de
GAMETES: gametas
GENES: genes
GENETICS: genética
HAD: tinham
HALF: metade
HAVE BEEN: tem sido
HE: ele
HEREDITY: hereditariedade

KNOW: sabemos
LAWS: leis
LIKE: como “
MADE: feitas
MALE: macho
MANY: muitas
MENDEL’S EXPERIMENT: o experimento de Mendel
MINIATURE COPY: cópia em miniature
MONASTERY: monastério
NEW: nova
NOW: agora
OBSERVED: observadas
OCCURS: ocorre
OF THE: das, do
OF: da, de
OR: ou
ORGANISM: organismo
OVULE: óvulo
PARENT: pai
PARENTS: pais
PEAS: ervilhas
PEOPLE: as pessoas
PLANT: planta
PLANTS: plantas
PODS: vagens
POLLEN GRAIN: grãos de pólen
REPRODUCTIVE CELLS: células reprodutivas
RESPONSIBLE: responsáveis
ROUND AND WRINKLED PEAS: ervilhas redondas e enrugadas
ROUND PEAS: ervilhas redondas
ROYAL BLOOD: sangue real
SIMILARITY: semelhança
SOME: alguns
SPERMATOOZOA: espermatozoide
STATED: declaração
STUDIED: estudadas
SUBSTANCES: substâncias
SUGGESTED: sugeria
THAT: que
THE: a, o, as, os
THEORY: teoria
THESE: estas
THEY: elas
THIRDS: terços
THIS: esta
THOSE: aqueles
THOUGHT: pensavam
THROUGHOUT: ao longo da
TO: para
TODAY: hoje
TRANSMITTED: transmitidos
TWO: dois
USED: usou
WE: nós
WERE MIXED TOGETHER: se misturavam
WERE: foram
WHEN: quando
WHICH: que
WITH: com
WRINKLED PEAS: ervilhas enrugadas

Caros estudantes,

Este exercício não é para devolução. Ele servirá de base para perguntas avaliativas que serão feitas na próxima semana.