

Ch. 7: incomplete dominance + codominance

- both alleles in a genotype can show up in a phenotype.

- heterozygous flowers are diff. than both parents

- Codominance - offspring will show characteristics of both homozygotes.

A + B - Dominant

O - Recessive

Type

{ AA

Type { BB

{ AB

{ OO

{ BO

{ AO

{ BO

{ BO

{ BO

{ BO

{ BO

{ BO

Homework - single strand of DNA is 21 letters w/ 3 letter groups

- 3 letter groups = 1st TAC last - ACT

so many other possibilities without changing anything

TAC CCG ATA TGA CCA AAA ACT

TAC TTT ATG GAT CAT TTA ACT

TAC TGT ACT TTG TAC CGT ACT

DNA: How it works:

: no it's just ACT

Genotype & Phenotype

: word, exert, nerv -

(but it's ACT word) - exert -

- Grandma's cookies

- DNA + RNA

- DNA carries DNA

- converts to RNA to

- RNA is single strand - compliment of DNA

- strand with exchange

- U takes place of A

- ribosomes let it out of nucleus

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① Unzip DNA - build compliment

② Take the compliment

③ Replace all of the T's w/ U's

\* Very imp - do this after

switches out or not -

switches out or not -

- = w/fangs  
 ○ = normal
- RNA leaves protein factory → animali: F. nD
  - \* each 3 letter code codes for spec amino acid
  - Ribosomes
    - Starts reading for amino acid
    - 95% is junk DNA
    - reads looking for start code until it gets stop code, continues to read looking for start code again
    - \* every 3 letter codes for specific amino acid
    - each chain of amino acids folds into a specific shape
    - TGA - order determines shape
    - same code same shape.

DNA > RNA > Protein

### DNA Replication:

- When, where, how?
- Where - Nucleus (where DNA is held)
- When - All the time (constant) - cell cycle

when → \* interphase - cells grow & make copies of DNA

- How -
- ① DNA molecules unzip
  - ② Read bases
  - ③ Complementary bases paired on each of 2 strands
  - ④ Both strands are proof read
  - ⑤ Mistakes cut out & corrected
  - ⑥ Process resumes

### Damage to genetic code cause & effects

- bad reputation
- tend to be disruptive
- very, very, rare → 1000 mistakes/hour

DNA = TAC CCG ATA TGA CCA AAA ACT

reversal { RNA = ATG GGC TAT ACT GGT TTT TGA  
compliment

replace T → AUG GGC UAU ACU GGU UAU UGA  
w/U

read codes ↓ ↓ ↓ ↓ ↓ ↓

- Methionine - Glycine - Tyrosine - Threonine - Glycine Phenylalanine - STOP

\*Continues to read\*

Can't from  
other page

- mutation in indiv cell not rare but because you make so many other good cells that cell will not change anything
- mutation in gametes = can change variables passed on to next generation

## 2 basic mutations

Point - changes amino acid (base)

- can be an issue / but not mostly

Chromosomal - addition or deletion

- letter is missing from 3 letter codes
- changes all other amino acids
- lethal
- illegible

Causes -

① Mistake in copy of DNA

- can't prevent (natural)

② Chemical exposure

- Radiation (x-rays) - risks can be minimized

③