

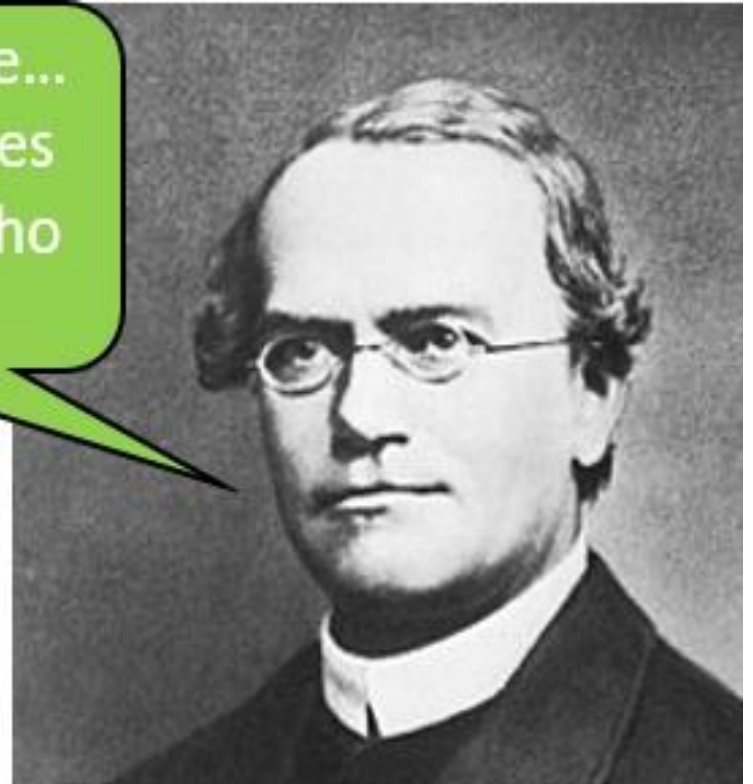
# Even more Mendel! (heredity continued)

October 18, 2017

LO: Use Punnett squares.

SLE: Meet NGSS.

Yes, I was celibate...  
But my discoveries  
apply to those who  
are not!



(1)

Dad's genotype = ll; Dad's phenotype =

Mom's genotype = ll; Mom's phenotype =

Possible genotypes of offspring, with probabilities of each:

Possible phenotypes of offspring, with probabilities of each:

(2)

Dad's genotype = Ll; Dad's phenotype =

Mom's genotype = Ll; Mom's phenotype =

Possible genotypes of offspring, with probabilities of each:

Possible phenotypes of offspring, with probabilities of each:

(3)

Dad's genotype =  $ll$ ; Dad's phenotype =

Mom's genotype =  $Ll$ ; Mom's phenotype =

Possible genotypes of offspring, with probabilities of each:

Possible phenotypes of offspring, with probabilities of each:

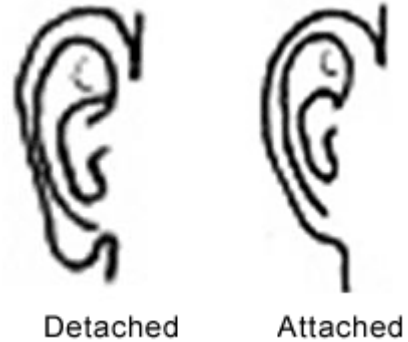
Question:

Are traits controlled by dominant alleles more common than traits controlled by recessive alleles?

Your preliminary answer:

Are traits controlled by dominant alleles more common than traits controlled by negative alleles?

- Ear lobes: free vs. attached
- Fingers: hairy vs. no hair
- Widow's peak: present vs. absent
- Hair: curly vs. straight
- Chin: cleft vs. smooth
- PTC: can taste vs. cannot taste



Question:

Are traits controlled by dominant alleles more common than traits controlled by recessive alleles?

Your preliminary answer:

Your final answer:

# Homework due Oct. 19

- Section Review questions 1 through 9 on page 67 of your textbook.