



# Human Genetics

## Plan of the Week #6

Continue to check your progress on PowerSchool, Schoology and Wardisiani.com

### 9/27 Monday:

- **In-Class Review:** Genetics Mini-Quiz

### 9/28 Tuesday:

- Quiz
- Q/A Session



### 9/29 Wednesday:

- **You Tube Video:** "The Voyage of the Beagle"



### 9/30 Thursday:

- **Take Your Parent to School Day**
- **Genetics Today:** Q/A Session



### 10/1 Friday:

- **In-Class Work Day**
- **Experimental Wrap-Up**



## Objectives for Week #6

- Pedigrees and Punnett squares are tools that apply Mendel's first law to predict the recurrence risks of inherited disorders or traits
- A cell contains many mitochondria, which have many copies of the mitochondrial genome; mitochondrial genes are maternally inherited and mutate rapidly
- Mendel's first law can be used to solve problems involving X-linked genes
- Genes and environmental factors frame most traits
- Heritability measures the genetic contribution to a multifactorial trait; it is specific to a particular population at a particular time
- Population that suddenly become sedentary and switch to fatty diet reflect environmental influence on the body
- The genes products responsible for variation in behaviors
- Most behavioral traits and disorders are common, polygenic and multifactorial



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