



## This World of Humans: Episode #1 Student Worksheet

### Junk DNA

#### Vocabulary Worksheet

Below are a list of terms and phrases that you will encounter while reading the article and listening to the interview. Using a dictionary, provide definitions for each term or phrase. If you cannot find a formal definition, write down what you *think* the term or phrase might mean. Keep in mind that the meanings of these terms *in science* may be different from the way we used them in common speech.

**Genome**

**Mean Fitness**

**Allele**

**Genetic Drift**

**Genetic Load**

**Mutational Load**

**Deleterious Mutation**

**Reading Guide and Worksheet:**

This worksheet is meant to help you delve deeper into the ways in which scientists use language in scientific articles – in this case, genetics. Below is some information about the different rhetorical moves scientists often use when presenting research. Using this as a guide, examine the article to identify at least 3 moments where the authors are doing these things.

Definition	How does the author use each of these (if they do) to develop their purpose?
<p><b><i>Ethos:</i></b> Ethical appeals establish the credibility and goodwill of the author or of the sources used to support an argument. Where and how does the author explain his or her related background or establish the credibility of the sources used?</p> <p>(Hint: This is not always in the text proper. Consider all of the material on the page.)</p>	
<p><b><i>Pathos:</i></b> Emotional appeals draw on the readers' emotional response to the subject and on shared beliefs and values. This doesn't always mean <i>creating</i> feeling – it can be an absence of feeling, as well. Where does the author use language and/or create images that are emotionally charged?</p> <p>(Hint: Look for descriptive terms and words that have positive or negative associations.)</p>	
<p><b><i>Logos:</i></b> Logical appeals use reasoning and evidence in support of an argument. Logical appeals draw on facts, statistics, research, financial costs, observations, and experiments to reach conclusions using logical schema. Where and how does the author use evidence? What kinds of evidence are used? What logical schema does the author draw on to interpret the evidence?</p>	