**TAKING SIDES ANALYSIS REPORT (SHORT FORM)**

Name: Filip Kolovrat

Course: Human Biology

Article: Mitochondrial DNA and human evolution

Author and Citation: Rebecca L. Cann, Mark Stoneking, and Allan C. Wilson: Department of Biochemistry, University of California-Berkeley

Major thesis and position of author: “Mitochondrial DNAs from 147 people, drawn from five geographic populations have been analyzed by restriction mapping. All these mitochondrial DNAs stem from one woman who is postulated to have lived about 200,000 years ago, probably in Africa. All the populations examined except the African population have multiple origins, implying that each area was colonized repeatedly.

Answer the following as completely as you can from the material presented by the author:

1. Briefly state in your own words three facts presented.

-Molecular biology is a major source of information about the evolution of the human species.

-Common ancestral mtDNA is believed to be African.

-Each non-African population has multiple origins.

2. Briefly state in your own words three opinions given.

-They infer that the likely source of the human mitochondrial pool is from Africa.

-The two primary branches must lead back to Africa.

3. Identify in your own words the propaganda techniques used, if any.

-I don’t believe there are any propaganda techniques used in this article. This was a very well-supported, purely research-based article.

4. What cause/effect relationships were stated or implied by the author?

-The branching out from Africa provided for a differentiation of genes over hundreds and thousands of years.

5. Were any of these cause/effect statements faulty? Why?

No, because this can be proven quite well with good evidential support.

6. Did you find evidence of other logical errors on the part of the author? Explain where and how for each of the topics listed below.

a. Distortion of Information \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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b. Faulty Analogy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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c. Oversimplification \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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d. Stereotyping \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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e. Faulty Generalization \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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7. How credible is the author? What are the author’s credentials for writing this presentation?

The authors are very credible. The are from the University of Cal-Berkeley’s Department of Biochemistry.

8. How does this material fit in with material in your text or material presented in class? Be specific.

This material fits with what we learned in class because we spent a large amount of time talking about gene expression and gene evolution. This included the concept of survival of the fittest and natural selection.