Writing Assignment #3

Wu, Hongzhaun. Scissum-Gunn, Karyn. Singh, Narendra K. Giambrone, Joseph J. Toward the development of a plant-based vaccine against reovirus. *Avian Diseases* **Vol.53**. https://doi.org/10.1637/8589-011309-reg.1 (2009).

This article discusses findings of a new vaccine for Avian reovirus developed using plant cells. This article is a good example of a primary article. It shows the four main sections, the introduction, the materials or methods, the research itself, and the discussion. In the introduction, it gives a description of the experiment and what they hoped to accomplish. In the materials and methods section, it discusses how they obtained viral RNA from the infected chicken embryos’ allantoic fluid, and then how the “plants resistant to bialaphos (glufosinate) showing homozygous segregation were selected for further analysis” (Hongzhaun, etal., 2009). Next, in the research section, the article discusses the immunization and analysis of the experiment, along with the results of the experiment, including which birds showed resistance and the antibody response to the vaccine and the virus. Finally, in the discussion section, the article finishes off by stating how the experiment was a success and offered valuable new discoveries and by confidently declaring that “transgenic plants offer a novel and safe system for vaccine development and provide a basis for development of edible vaccines for control of other important diseases of poultry and livestock” (Hongzhaun, et al., 2009).