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### Understanding Research Articles

There are numerous types of articles available for readers to explore to learn more about their desired topics. A primary article is a piece of writing that directly describes the topic as a first-hand experience. For the field of science, this could be a report about an experiment or research that displays new discoveries. This type of article will directly describe the data, not use other articles that describe the same topic they are aiming to inform about. To portray new theories, these articles will usually use Introduction, Methods, Results, and Discussion sections. These sections will allow the author to describe how they obtained their data, what the data shows, and connect the dots of why the data shows what it shows. This style of article allows the writer to discuss the results they found, not address the results someone else found.

In a review article, the writer is reviewing someone else's primary article. The author of the review article is writing a review about someone else's original findings. Often times, the purpose of the review article is to analyze the original research from another source and interpret it in such a way that it is simpler for the general public to understand. These articles may explain processes or make connections so that the readers can have a stronger grasp on the concepts being explained. The review article will often cite the primary article, so the reader knows which article's original data the review is referring to. If the reader wants a deeper understanding of the material after reading the review article, they can read the primary article to explore more of the methods and results.

The scientific peer review process is a way to ensure a journal is a quality product. If the editor decides the article has potential to be in a scholarly journal, the article will be sent off to other people who are experts in the same topic that the article is addressing. This will ensure that the article is a high quality and has significance in its field compared to other pre-existing articles. These experts will ensure the article has original findings, sensible conclusions, and a solid purpose. This will ensure that the article will not waste the reader's time with misleading or confusing information. Once the experts have made the necessary changes and decide the article is worthy of publication, the editor will make the final decision about the article's fate before publication. This differs is an intense process to ensure the significance of an article while a review article is a written interpretation of a primary research article.

The primary article is the article titled *Permanent Inactivation of Huntington's Disease Mutation by Personalized Allele-Specific CRISPR/Cas9*. This article focuses on research about strategies to decrease the production of a mutant protein found in Huntington's Disease. Included in this article is the presentation of new information and description of the research performed. This article has numerous sections consistent with a primary article such as Introduction, Results, Materials and Methods, and Discussion. New information is presented, and significant conclusions are made, all characteristics of a primary article. The review article is the article

titled *Huntington's Disease: Mechanisms of Pathogenesis and Therapeutic Strategies*. This article is consistent with a review article because it has more focus on explaining what Huntington's Disease is to provide a strong foundation of the subject for the readers, then dives into explaining the research trials about the pathogenic mechanisms. This is an easier read for the public because it starts off talking about the basics of the disease, then slowly escalates, building more knowledge, leading to the clinical trials, similar to the ones performed in the primary article.