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Writing Assignment #2: Article Types

There are different variations of peer reviewed articles, one type of peer reviewed article is a primary article. Primary articles involve original scientific reports, they use scientific observations and research to gain knowledge on a given subject. Primary articles also will typically contain specific headings throughout the article such as methods, results, discussion, etc. Primary articles typically include forms of quantitative and qualitative data gathered from research on a given subject. Primary articles will summarize information on a given subject, however primary articles only summarize the subject in a paragraph and include research and data gathered throughout the remainder of the article.

Review articles summarize existing research and data on a given topic. Unlike primary articles, review articles do not include direct or indirect research. Review articles focus on discussing pre-existing research on a topic and do not summarize original research findings. Review articles are more generalized and aid in gaining a better understanding of a given topic that is unfamiliar.

Peer reviewed articles like primary articles and review articles all must undergo a review process before being published and accessible to the public. The peer review process is typically conducted by peers or individuals involved in the same field as the individuals who produced the article. The peers involved within the peer review process consider questions involving the relevance, quality, and results of the article being reviewed. The peer review process begins with the article being analyzed by the editor of the journal, if the editor is interested in the article being published then the editor of the journal will send the article to research experts or peers to determine the quality of the article. During the peer review process the peers evaluating the article will identify key indicators of quality and significance through a questioning process. Once the peers reviewing the article have determined the quality, significance and originality of the article they will recommend the editor to publish the article or discard it. If the article makes it out of the peer review process the author will still typically have to make some revisions and edits before the editor of the journal will publish the article.

After reviewing the two research articles, I determined that “Rapid and Sensitive Detection of SARS-CoV-2 Using Clustered Regularly Interspaced Short Palindromic Repeats” is the primary article. Initially I was able to determine that this article was the primary article because it had specific sections such as methods, results and discussion. Additionally, I believe that this article is the primary article because it included qualitative and qualitative research results that were conducted and discussed within this article. The article states that “We obtained NR-52286 and NR-52349 samples from the BEI Resources (Manassas,VA, USA)” (Tsou J-H, et al., 2021). This line specifically helped me determine that this article was a primary article because the line discusses the authors obtaining samples and conducting their own research, which helped me conclude that this article was based on an original research report. This article was not summarizing pre-existing research findings, rather the article was discussing original research. I determined that “Development of clustered regularly interspaced short palindromic repeats/CRISPR-associated technology for potential clinical applications” was the review article. I was able to determine that this article was the review article because the article was summarizing pre-existing research. Additionally, this article was not summarizing or disclosing original research through quantitative or qualitative data, but rather the article was summarizing general information about a specific topic. Lastly, this article also did not include specific sections that are commonly found in primary articles, this helped me determine that the article was a review article. The article states that “In CRISPR/Cas systems, researchers have discovered various Cas proteins with different characteristics” (Huang YY et al., 2022). This line specifically helped me conclude that this article was a review article because the line discusses research that has already been found by other researchers and was not original research conducted by the author of the article.

Works Cited

Tsou J-H, Liu H, Stass SA, Jiang F. Rapid and Sensitive Detection of SARS-CoV-2 Using Clustered Regularly Interspaced Short Palindromic Repeats. *Biomedicines*. 2021; 9(3):239. <https://doi.org/10.3390/biomedicines9030239>

Huang YY, Zhang XY, Zhu P, Ji L. Development of clustered regularly interspaced short palindromic repeats/CRISPR-associated technology for potential clinical applications. World J Clin Cases 2022; 10(18): 5934-5945. https://www.wjgnet.com/2307-8960/full/v10/i18/5934.htm