

Primary Article Verses Review Article

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A primary article is the original article written about an experiment. This article often includes input from the researchers and is referred to by all secondary or review articles. Most primary articles will include the methods, results, discussion, and all references which were used in the experiment. They are also often peer reviewed, looked over and verified by other experts in the field, and verified to make sure the results are in alignment with what is already known about the subject.

A review article is typically a shorter, news style article which describes the experiment and its results. A review article will typically quote the original (primary) article but will not include the methods or any input from the researchers, and they are not peer reviewed. These articles are great for learning about an experiment; however, they should not be used for research, but simply as a way to learn about interesting experiments going on.

The peer review system starts with a researcher sending a paper into a journal for the journal editor to decide weather or not the paper is a good fit for the journal. If the editor is interested in putting the paper into the journal, they will send it off to a group of expert researchers in the field of study concerning the paper. These experts will then do a hyper-critical review of the paper in which they will decide if the research is significant, if its methodology was proper, weather or not the research fits the rest of what is being done in the field, the legitimacy of the information, and even if the research is new, or simply a copy of something

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older. Once the group of experts finish with the article, they give it the green light and send it back to the journal editor to make the final decision.

Of the two articles provided for this project, one is a primary article. This would be “Base editing of hematopoietic stem cells rescues sickle cell disease in mice”. We can see that this is the primary article because the authors refer to themselves as the researchers, “We generated a novel ABE (ABE8e-NRCH) that converts the SCD allele to the non- pathogenic HBBG Makassar allele with minimal non-silent bystander edits in patient CD34+ HSPCs.” The secondary article is Hematopoietic Stem Cell Gene-Addition:Editing Therapy in SCD. We know this because the article gives a larger overview of what the importance of the research is, and gives less information about the actual research project, “Recently, HSC gene therapy has been employed in the treatment of various hereditary genetic disease”