

Review of: "Tumor Cytobiology of IGF-1R In Breast Tumor Activation and Propagation; And the Role of Celecoxib in Its Inhibition"

Monchura Saha¹

¹ Massachusetts Institute of Technology

Potential competing interests: No potential competing interests to declare.

In the mini-review "Tumor Cytobiology of IGF-1R In Breast Tumor Activation and Propagation; And the Role of Celecoxib in Its Inhibition" by Maher M. Akl and Amr Ahmed, the authors have summarized the cytobiology of IGF-1R and its inhibition by Celecoxib in breast cancer. It will be impactful and help the scientific community with further research. This review article can be published with some minor modifications to increase its visibility and clarity, following the below-mentioned suggestions.

1. Rewriting the abstract by using some simpler scientific words while maintaining its scientific impact could be better for readers' easy understanding. It would be good to write in a simpler way so that it is more meaningful for therapeutics. It looks like lots of unnecessary hard words were used from some sources to make it sound more sophisticated, which I feel has impacted it negatively. For example, "Amidst the burgeoning landscape of therapeutic interventions,"
2. In the introduction section, using "cognate ligands" is not a good phrase. There are many other scientific words to explain this phrase for better clarity.
3. It would be good to clearly mention the general application of these drugs and the chemical structure, PDB structure of IGF-1R, and describe it in the introduction section. The authors did a good job of explaining how IGF-1R influences tumor growth progression but did not explain anything about the drugs. It would be good to add a paragraph about the drug, its uses, and how it is impacting IGF-1R, draw a schematic, and cite good references. Though the authors mentioned this later in the article, briefly mentioning it in the introduction would be more effective.
4. Write the full form of the abbreviation "SHC" in Figure 1.
5. The authors did a good job of summarizing the ECM effects schematically; it would be good if they used better quality pictures, as at least the written words in the figure are so hazy. It can be easily improved. It would be better if the authors explained Figure 3 briefly in that paragraph, like the other parts they explained.
6. The authors need to add the full terminology of all the abbreviations used in Figure 7, as those are not mentioned in the captions.
7. The authors did a good job of summarizing the detailed mechanism of celecoxib drugs; it would be good to show it schematically as well, and a table with references on long-term effects/survival would be really helpful.
8. The authors really need to improve the references to maintain a specific format. For example, Refs: 2, 11, 17, 18, 20, 22, 26, 28, 29, and 33 are so random.

9. Enlisting all the abbreviations and their full forms at the end of the manuscript would be really helpful for readers.