Review of: "The Role of Ferroptosis in Inflammatory Bowel Disease: Mechanisms and Therapeutic Implications"

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Potential competing interests: No potential competing interests to declare.

The present article which entitled “The Role of Ferroptosis in Inflammatory Bowel Disease:

Mechanisms and Therapeutic Implications” pointed the important role of ferroptosis in inflammatory bowel disease and gave a primary summary of current studies on this area. And there existed some shortness needed to be improved. The main shortage was the classification of ferroptosis related mechanisms. The author classified the ferroptosis related mechanisms into pro-and inhibited mechanisms. However, some mechanisms were not suitable in their classification. For example, ferritin and inflammation may play a pro-ferroptosis or anti-ferroptosis roles in different physical conditions. To classified them simply into pro-ferroptosis or anti-ferroptosis mechanism was unprecise. Moreover, some subtitles under their classification were incomplete or incorrect. As we all know not only ferritin involved in ferroptosis, other iron metabolism proteins (transferrin, hepcidin and etc.) also had significant roles in regulating ferroptosis, why the author only list ferritin in 2.2.1. And in the subtitle of 2.2.2, the author listed several anti-oxidant enzymes but not included catalase which was also an important anti-oxidant enzyme under this subtitle. Finally, as the most important content of this paper, the content on IBD related ferroptosis mechanisms and potential therapeutic targets was not sufficiency enough.