

This paper reviewed the current knowledge on pyroptosis and human gasdermins, focusing on the description of the different members of the family, their molecular structures, and their influence on health and disease directly or non-directly related to inflammation. The authors focused on the existing understanding of the role of this family of proteins in cancer, what could translate into novel promising strategies aimed at the benefit of human health. The modulation of pyroptosis and gasdermins by natural and synthetic compounds through different mechanism, like modification of the redox state of cells, has been proven effective and sets precedents for future therapeutical interventions.

1. Though the study is quite interesting, the reviewed aspects of pyroptosis is kind of narrow. The authors should discuss if there is any other similar research work. **Thanks for your comment, we understand it is a very convenient question. We did not pretend to do an exhaustive revision of the gasdermin family and the different mechanisms of pyroptosis, as there are plenty already available (that is why we reference other existing reviews along the manuscript). Instead, we wanted to do a general revision of the topic, to then focus on the available evidence regarding the effect of synthetic and, specially, natural compounds in pyroptosis, and their modulatory actions on the different type of gasdermins, focusing on cancer, where there is still a gap in the knowledge, and highlighting the role of redox. A brief explanation about the purpose of our work has been included at the end of the section 1. Introduction, and at the end of the first paragraph of 5. Gasdermins, pyroptosis and cancer.**

2. The overall writing has some formatting issues, like wording and spacing. I suggest the authors check the grammar and avoid any typos. More importantly, the writing needs improvement. **Thanks for your comment. Wording and spacing have been checked and corrected, and a general writing improvement has been done.**

3. I would suggest the authors to highlight the roles of pyroptosis in a specific cancer type, which helps enhance the depths of this review. **As the implication of pyroptosis and the different gasdermins can be very diverse among different cancers, or even cancer subtypes or subpopulation of cells within a tumor, an introductory paragraph about the importance and roles of pyroptosis in cancer has been made, instead. Please, kindly find it at the beginning of the section 5. Gasdermins, pyroptosis and cancer.**