

# Review of: "[Review Article] Melatonin, ATP, and Cataracts: The Two Faces of Crystallin Phase Separation"

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**Potential competing interests:** No potential competing interests to declare.

This is a remarkable review article. The paper is very well written and structured.

2.2. Would it be possible to provide more specific information regarding the exact number or range of temperatures considered high and low in comparison to body temperature? Such additional details would greatly enhance the readers' understanding of the topic.

## 4. Melatonin Maintains Lens Redox Homeostasis to Attenuate Cold Cataracts

"but also as a robust regulator of thermodynamically-driven phase separation processes vital for survival [128][129][130]"

Would you kindly provide an exact reference regarding the effect of melatonin to support this statement? Such precise referencing would greatly strengthen the credibility of the assertion.

4.3 This concept is relatively recent and fascinating in the field of ferroptosis.

5.3 A remarkable insight into the effects of melatonin with water. This is very much appreciated.