

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

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The review article entitled "Melatonin, ATP and cataracts: The two faces of lens phase separation" presents a comprehensive discussion of the synergistic role of melatonin and ATP in protein aggregation processes, such as the case of lens proteins in cataract formation. It also integrates a vision of the biophysical role of these metabolites in this phenomenon, as well as their function in pathologies such as glaucoma. The article itself is very complete in bibliography, however I suggest to include some articles that involve the use of nanoparticles with melatonin in these processes such as "Neuroprotective effect of melatonin loaded in ethylcellulose nanoparticles applied topically in a retinal degeneration model in rabbits" Bessone Carolina, et al. 2020 (10.1016/j.exer.2020.108222) from Daniela Quinteros research group. Since the use of loading-nanoparticles in this kind of diseases could improve the treatment and decrease the dose of melatonin.

I recommend this review article for publication.

Best regards,

Dr. Maximiliano Rios.