

Review Form 3

Journal Name:	Ophthalmology Research: An International Journal
Manuscript Number:	Ms_OR_121420
Title of the Manuscript:	The Genetics of Primary Open Angle Glaucoma Interventions: Therapeutic Directions, and Future Predictions.
Type of the Article	Review Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>Review comments:</p> <ol style="list-style-type: none"> 1. Endoplasmic reticulum stress and UPR in trabecular meshwork cells: Specific signaling pathways and proteins involved in this process could be discussed, as these details are crucial for understanding the mechanistic underpinnings of this cellular response. 2. Mitochondrial dysfunction caused by Pro370Leu Mutant MYOC: The review effectively highlights the impact of the Pro370Leu mutant MYOC on mitochondrial dysfunction within trabecular meshwork cells and astrocytes. Further elaboration on the specific features of this dysfunction could enhance our understanding of how these mitochondrial changes contribute to disease pathology. 3. MYOC dysregulation of calcium channels: The implications of this dysregulation on overall cell viability and function could be discussed. 4. Pressure-induced injury and retinal gene expression: Specific mechanisms and molecular pathways involved in this process would strengthen the discussion. 5. Epigenetic changes and POAG risk: Including specific studies or findings that illustrate these interactions with genetic and environmental factors would provide a clearer picture of how epigenetics contributes to POAG risk. 6. Advancements from GWAS in POAG understanding: The review acknowledges the contribution of genome-wide association studies (GWAS) to our understanding of POAG. Expanding on the specific discoveries and how these findings have influenced current research and clinical practices would be beneficial. 7. Ocugene's Diagnostic Performance for Glaucoma: Providing more detailed comparisons regarding accuracy and reliability would offer a clearer assessment of Ocugene's diagnostic value. 8. Ocugene for Presymptomatic detection: Limitations and challenges associated with this approach could be mentioned. 9. Risks and limitations of modified viral vectors in gene therapy: The challenges associated with modified viral vectors in gene therapy recent advancements to address these challenges would provide a more complete picture of the current state of gene therapy technology. 	

PART 2:

	<p>Reviewer's comment</p>	<p>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

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