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Recent advances and techniques of glaucoma induction in animal models: A review --Manuscript Draft--

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Abstract:	Glaucoma, is considered as a set of diseases is usually described by elevated intraocular pressure, resulting into damage in the retinal ganglion cells (RGCs) resulting in irreversible blindness. To minimize the vision loss, lowering the elevated IOP level is the most common approach that has been used in clinical practice. In order to produce sustained drug action or minimize doses, various novel drug delivery-based drug vehicles have been explored in recent decades. For in vivo pharmacodynamics studies, such drug vehicles as well as new drug preclinical studies must be performed on experimental animal models. The animal model is the most commonly used tool to ensure drug efficacy and regulatory compliance. In this review, we briefly discuss the dynamics of aqueous humour formation and commonly used animals to study ocular hypotensive effects along with their merits and demerits. Moreover, techniques of glaucoma induction with pros and cons have also been explored. In conclusion, animal models are the most used tool to evaluate preclinical studies of antiglaucoma drugs and novel formulations to translate them from bench to bedside.
Response to Reviewers:	Respected Reviewer, In the paper entitled "Recent advances and techniques of glaucoma induction in animal models: A review" I am extremely thankful to you for showing your keen interest, and seeding motivation for improvement of this review article. Kindly find reply to comments in the tabular form below, while the text is incorporated into the main file (highlighted in red) at appropriate places. Reviewer 1 1)The description of the anatomical differences of commonly used animal models and

