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Viral gene therapy approaches for CRB1 retinal disease

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Stellingen behorende bij het Proefschrift:

Viral Gene Therapy Approaches for *CRB1* Retinal Disease

- 1.** Understanding and utilizing the cellular and genetic differences between rodents and humans remains crucial for future research (field).
- 2.** Loss of mouse *CRB1* and ablation of *CRB2* in rods results in visual function impairment and to an exacerbation of the retinitis pigmentosa phenotype (this thesis).
- 3.** Spectral domain optical coherence tomography is essential to analyze the progression in morphological changes in the diseased retina (this thesis).
- 4.** In *CRB1* patient-derived retinal organoids, the *CRB1* protein is largely diminished while *CRB1* transcript levels are similar to the isogenic control (this thesis).
- 5.** The relatively low levels of human *CRB2* in Müller glial cells could be the cause for the inner retinal phenotype of human *CRB1*^{KO} retinal organoids (this thesis).
- 6.** Different adeno-associated viral vector (AAV) capsids display unique cell tropisms; therefore, it is essential to characterize the AAV tropism in the specific research model being employed (this thesis).
- 7.** The utilization of human-induced pluripotent stem cell-derived retinal organoids enables access to previously unavailable materials for a better understanding of retinal disease field).
- 8.** Treatment within the correct window of opportunity is essential for the success of AAV-mediated gene augmentation therapy (field).
- 9.** One should consistently bear in mind the distinction between statistically significant differences and biological relevance (field).
- 10.** The publication of peer-reviewed well-executed experiments with undesired outcome is crucial, as it helps in preventing the repetition of unsuccessful experiments.