

SEMINAR

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Sala de Conferencias (Level 1 foyer), CSIC

Development of myopia in the guinea pig eye

The prevalence of myopia has risen dramatically within a generation. In 2010, myopia affected 27% and high myopia (>-5D) 3% of the world's population; by 2050, myopia is estimated to affect 52% and high myopia 10% of the world's population, and half of the countries of the world will have a myopia prevalence $\geq 50\%$. High myopia is the 2nd most frequent cause of blindness and the number one cause of low vision worldwide. There is currently no treatment for high myopia. Animal models have allowed some understanding of the mechanisms underlying myopia. In this seminar, I will summarise what we know about the development of myopia based on these animal models, and in particular, the changes and possible treatment approaches based on mammalian myopic eyes using the guinea pig model of myopia that we have developed.



Newcastle Bar Beach, Australia