

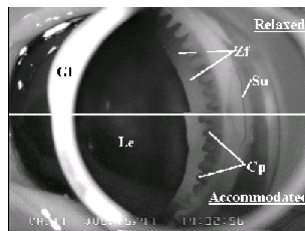


SEMINARIO DE IMÁGENES Y VISIÓN

INSTITUTO DE OPTICA (CSIC)

Is there anything more to learn about accommodation and presbyopia?

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Accommodating eye see by gonioscopy. A. Glasser

ABSTRACT

An overview of the anatomy of the accommodative apparatus of the eye will be presented. The classical Helmholtz accommodative mechanism will be detailed with videographic evidence from ongoing studies on rhesus monkeys. This will be followed by a overview of factors contributing to the development of presbyopia that are supported by experimental evidence from studies of human eye-bank eyes and non-human primates. The relevance of the scientific data addressing the causes of presbyopia will be put into clinical context with respect to approaches aimed at restoring accommodation in presbyopes that are currently under investigation. Ongoing experiments in rhesus monkeys and isolated lenses have provided new information on how the primate lens undergoes accommodative optical changes. Our long term goal is to use this new information to understand how the young lens undergoes accommodative optical changes and to compare these results from older eyes with lower accommodative amplitudes to try to learn more about how and why presbyopia develops.

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16:30 horas

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