

● BIOLOGY AND MEDICAL HISTOLOGY



INTRODUCTION

The research group Biology and Medical Histology, of the Department of Histology and Anatomical Pathology, Faculty of Medicine, consists of 11 members, which are specialized in the study and analysis of intraocular changes occurring with glaucoma or intraocular pressure. In order to achieve more consistent research data, the scientists created an experimental model capable of causing intraocular pressure in laboratory rats, and generate an glaucomatous optic neuropathy similar to the one in humans. Thus, the principal objective of this group is to develop a drug providing optimal properties in order to reduce occurrence of glaucoma or ocular hypertension, which in return is beneficial for the organism. The extensive experience of more than 20 years of investigation (the group was founded in 1988) in this field earned the group a strong curriculum in research and teaching. Furthermore, the quality of the academic work allowed for important cooperations and collaborations with various medical centers in Andalusia, specialized in ophthalmology.

RESEARCH TOPICS

- Study the mechanisms of action, involved in conjunction with elevated intraocular pressure, in the typical processes of neuron degeneration in glaucomatous optic neuropathy.
- Study the application of treatments with ocular pressure-lowering drugs having a vascular and neuroprotective action to prevent neurodegenerative factors generated in the glaucomatous neuropathy.

SCIENTIFIC-TECHNICAL SERVICES

- Experimental animal model recreating conditions similar to human glaucoma.
- Experiments with ocular hypotensive drugs and possible neuroprotective effects.

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