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Autophagy in glaucoma pathogenesis: Therapeutic potential and future perspectives

Min Li^{1†}, Zhao-Lin Gao^{1†}, Guan-Peng Zhang^{2,3}, Ai-Xiang Luo¹, Wei-Ye Xu¹, Tian-Qi Duan¹, Xu-Peng Wen⁴, Ru-Qi Zhang¹, Ru Zeng¹ and Ju-Fang Huang^{1*}

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Glaucoma is a common blinding eye disease characterized by progressive loss of retinal ganglion cells (RGCs) and their axons, progressive loss of visual field, and optic nerve atrophy. Autophagy plays a pivotal role in the pathophysiology of glaucoma and is closely related to its pathogenesis. Targeting autophagy and blocking the apoptosis of RGCs provides emerging guidance for the treatment of glaucoma. Here, we provide a systematic review of the mechanisms and targets of interventions related to autophagy in glaucoma and discuss the outlook of emerging ideas, techniques, and multidisciplinary combinations to provide a new basis for further research and the prevention of glaucomatous visual impairment.

KEYWORDS

autophagy, glaucoma, therapeutic strategies, retinal ganglion cells, neurodegenerative

1 Introduction

Glaucoma is the most common irreversible eye disease, the second leading cause of blindness, and one of the four leading causes of moderate and severe vision impairment (MSVI) (GBD 2019 Blindness and Vision Impairment Collaborators/Vision Loss Expert Group of the Global Burden of Disease Study, 2021). The number of people (aged

Abbreviations: RGCs, retinal ganglion cells; MSVI, moderate and severe vision impairment; CNS, central nervous system; IOP, intraocular pressure; PD, Parkinson's disease; HROP, high IOP; TM, trabecular meshwork; LC3, light chain 3 protein; ATG, autophagy related genes; PI3K, phosphatidylinositol 3-kinase; PIP3, phosphatidylinositol 3-phosphate; ATG5-12/16L1, ATG5-ATG12 conjugate binds to ATG16L1 to generate the autophagy elongation complex; PE, phosphatidylethanolamine; TREB, transcription factor EB; OPTN, optineurin; AH, aqueous humor; SC, Schlemm's canal; PC, primary cilia; ROS, reactive oxygen species; NF- κ B, nuclear factor kappa-B; IL-1 α , interleukin-1 α ; ELAM-1, endothelial leukocyte adhesion molecule-1; TBK1, TBK1 binding kinase 1; MYOC, Myocilin; TRPC, transient receptor; EVC, extra-scleral vein cautery; Alopi, Allogeneic progesterone; 3-Me, 3-Methyladenine; CQ, chloroquine; MSCs, Mesenchymal stem cells.

Perspectives In Glaucoma Research

**Association for Research in
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Perspectives In Glaucoma Research:

Perspectives in Glaucoma Research E. Lütjen-Drecoll, 1996-01-01 Glaucoma is no longer regarded merely as an elevated pressure in the eye which causes optic nerve changes but rather a disease of the optic nerve with characteristic features of damage at the nerve head and visual field Increased intraocular pressure is of course a major risk factor however for patients suffering from so called normal or low tension glaucoma other causes such as pathologic changes in blood flow structural changes of retina or optic nerve head vasculature have been identified This publication presents a number of outstanding overviews and contributions in which basic aspects of retinal optic nerve head and choroidal vasculature and mechanisms for blood flow regulation are discussed It also includes new concepts for glaucoma therapy Perspectives in Glaucoma American Glaucoma Society. Scientific Meeting, 1988 *The Glaucoma Handbook* Cansu Yüksel Elgin, 2025-10-23 Glaucoma the silent thief of sight is one of the leading causes of irreversible blindness This engaging text unravels the complexities of this multifaceted condition From the anatomy of the eye and mechanisms of disease to cutting edge treatments and research it bridges foundational knowledge with the latest advancements Through case studies patient narratives and a focus on global disparities it highlights the human impact of glaucoma and the importance of innovation and collaboration in combating it It is a must read for clinicians researchers and students seeking to deepen their understanding improve patient outcomes and explore the future of vision preservation Key Features Addresses a critical need for a comprehensive multidisciplinary resource on glaucoma that bridges clinical practice cutting edge research and global health perspectives Focuses on integrating clinical insights and emerging trends like AI minimally invasive glaucoma surgeries MIGS and advanced imaging tools making it a relevant resource for clinicians and researchers Includes patient narratives and real world case studies emphasizing the human side of glaucoma and fostering empathy and a deeper connection between practitioners and patients **New Perspectives in Glaucoma Pathophysiology, Diagnosis, and Treatment** Alessio Martucci, Carlo Nucci, Maria Dolores Pinazo-Duran, 2023-06-29 **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen**, 1997 **Verzeichnis lieferbarer Bücher**, 2002 Auswirkungen neuer Forschungsergebnisse auf Klinik und Praxis der Ophthalmologie, 1985 *Scientific Meeting* Association for Research in Ophthalmology, 1944 **Uveitis in the Clinic - Current Approaches and Future Directions in Diagnosis, Treatment, and Patient Care** Joobin Khadamy, 2025-10-29 Uveitis in the Clinic Current Approaches and Future Directions in Diagnosis Treatment and Patient Care brings together international clinical experience and current research to address one of the most challenging areas in ophthalmology Written by practicing ophthalmologists from different parts of the world the book combines practical insights with evidence based strategies It guides readers through modern diagnostic tools therapeutic approaches and surgical techniques while also highlighting the realities of managing patients in both advanced and resource limited healthcare systems Clear concise and clinically focused this volume serves as

an essential reference for ophthalmologists trainees and researchers By presenting diverse perspectives in a unified format it equips readers with the knowledge to make confident decisions and improve outcomes for patients with uveitis

Ophthalmic Literature ,1978 Digital Eye Care and Teleophthalmology Kanagasingam Yogesan,Leonard Goldschmidt,Jorge Cuadros,Giselle Ricur,2023-06-19 This book describes digital ophthalmology and telemedicine applications for both front of the eye and retina It includes technical issues digital imaging what clinical parameters to use which technologies are suitable and collective experiences of practitioners in different parts of the world practicing a wide range of digital eye care delivery The main purpose of this book is to provide adequate information to clinicians and other health professionals who are involved in eye care delivery to assess how digital health in ophthalmology might be applied to their working practice how digital screenings are performed and to learn about virtual image reading Many of the chapters are also helpful to health service managers imaging specialists and information technology staff Digital Eye Care and Teleophthalmology A Practical Guide to Applications examines digital eye care to provide state of art ophthalmic services It is an essential resource for professionals involved in eye care seeking to develop or improve their digital applications in daily practice **Digital Teleretinal Screening** Kanagasingam Yogesan,Leonard Goldschmidt,Jorge Cuadros,2012-03-28 Digital retinal imaging performed by primary care providers and nurses followed by remote image interpretation teleretinal imaging is rapidly acquiring a crucial role in many parts of the world as it permits the detection of major diseases such as diabetic retinopathy and glaucoma in patients who would otherwise be beyond the reach of a trained ophthalmologist In this book experts from around the world describe how digital teleretinal screening can be set up and optimally utilized Technical issues are discussed and the appropriate use of screening for different diseases and in different age groups is explained The major part of the book draws upon the clinical experience of leading practitioners in a wide range of teleretinal applications The result is a comprehensive source of high quality information for clinicians and other health professionals who are involved in eye care delivery so that they can assess how teleretinal screening might be applied to their working practice **Glaucoma; Pathology and Therapy** Pál Weinstein,1953 Nova acta physico-medica ,1983 *Forthcoming Books* Rose Arny,1997

Whitaker's Books in Print ,1998 **Integrative Ophthalmology** Ningli Wang,2019-09-05 With the development of nature science and industrial technology more and more patients are benefitting from the rapid progress in ophthalmology as the use of new medicine and delicate surgical therapy has ensured them the chance to restore their sight However some problems have come up during its development of which the most serious one is the limitation of the ophthalmology Eyes are not isolated organs they are connected to our body and thus the general status of our body will affect the eyes function Therefore it is of great importance that the ophthalmologists see the big picture while dealing with the clinical problems Based on the above observations we put forward the concept of Integrative Ophthalmology and describe the ophthalmology related medical situations that are prone to be neglected in clinical practice in a bid to increase the awareness of doctors

from all fields that a holistic view should be adopted in clinical practice and it is the patients that we are treating rather than the disease There are 9 parts in the book containing the concept of integrative ophthalmology intraocular and intracranial pressure gradient related diseases and the relationship between the different general status and eye disorders We do believe that the integrative ophthalmology is the key to the development of ophthalmology and hope readers can benefit from this book

Textbook of Ophthalmology Sunita Agarwal,2002 Written by the foremost experts from leading eye clinics worldwide this four volume work is the most comprehensive and current reference in ophthalmology The international representation of the 267 contributors ensures complete coverage of the broad array of contemporary technologies and techniques including the latest innovations in vitreoretinal cataract and refractive surgery In 324 chapters this encyclopedic text covers every area of ophthalmology basic sciences optics and refraction neuro ophthalmology strabismus lids adnexa and orbit external eye diseases cornea refractive surgery glaucoma lens uveal tract ocular therapeutics retina and vitreous systemic diseases and miscellaneous topics Thousands of superb illustrations enable readers to visualize surgical techniques

Proceedings [of The] Scientific Meeting Association for Research in Ophthalmology,1940 **American Journal of Ophthalmology** ,1944

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