

# Oxidative stress in glaucomatous neurodegeneration: M

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Citation Report

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Neuroglobin in normal retina and retina from eyes with advanced glaucoma. <i>British Journal of Ophthalmology</i> , 2007, 91, 663-666.   | 2.1 | 35        |
| 2  | Common Therapeutic Strategies for Diabetic Retinopathy and Glaucoma. <i>Current Drug Therapy</i> , 2007, 2, 224-232.   | 0.2 | 14        |
| 3  | Retinal Damage Caused by High Intraocular Pressureâ€“Induced Transient Ischemia is Prevented by Coenzyme Q10 in Rat. <i>International Review of Neurobiology</i> , 2007, 82, 397-406.  | 0.9 | 115       |
| 4  | Glaucoma as a neurodegenerative disease. <i>Current Opinion in Ophthalmology</i> , 2007, 18, 110-114.  | 1.3 | 350       |
| 6  | What Changes Can We Expect in the Brain of Glaucoma Patients?. <i>Survey of Ophthalmology</i> , 2007, 52, S122-S126.   | 1.7 | 69        |
| 7  | What Is the Present Pathogenetic Concept of Glaucomatous Optic Neuropathy?. <i>Survey of Ophthalmology</i> , 2007, 52, S162-S173.  | 1.7 | 267       |
| 8  | Is There More to Glaucoma Treatment Than Lowering IOP?. <i>Survey of Ophthalmology</i> , 2007, 52, S174-S179.  | 1.7 | 75        |
| 9  | A novel perspective on natural therapeutic approaches in glaucoma therapy. <i>Expert Opinion on Emerging Drugs</i> , 2007, 12, 195-198.  | 1.0 | 29        |
| 10 | Protective Effects of Epigallocatechin Gallate after UV Irradiation in Cultured Human Retinal Pigment Epithelial Cells. <i>Korean Journal of Ophthalmology: KJO</i> , 2007, 21, 232.   | 0.5 | 15        |
| 11 | Synthesis and secretion of transferrin by a bovine trabecular meshwork cell line. <i>Brazilian Journal of Medical and Biological Research</i> , 2007, 40, 1345-1351.   | 0.7 | 2         |
| 12 | One-hit stochastic decline in a mechanochemical model of cytoskeleton-induced neuron death I: Cell-fate arrival times. <i>Journal of Theoretical Biology</i> , 2007, 249, 1-17.  | 0.8 | 4         |
| 13 | Epigallocatechin gallate, an active ingredient from green tea, attenuates damaging influences to the retina caused by ischemia/reperfusion. <i>Brain Research</i> , 2007, 1159, 40-53.   | 1.1 | 90        |
| 14 | Influence of oxygen free radicals on the tone of ciliary arteries: a model of vasospasms of ocular vasculature. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2007, 245, 1327-1333.                                | 1.0 | 9         |
| 15 | Proteomic analysis of rat retina in a steroid-induced ocular hypertension model: Potential vulnerability to oxidative stress. <i>Japanese Journal of Ophthalmology</i> , 2008, 52, 84-90.  | 0.9 | 43        |
| 16 | Mitochondria-targeted plastoquinone derivatives as tools to interrupt execution of the aging program. 4. Age-related eye disease. SkQ1 returns vision to blind animals. <i>Biochemistry (Moscow)</i> , 2008, 73, 1317-1328.                | 0.7 | 130       |
| 17 | Light affects mitochondria to cause apoptosis to cultured cells: possible relevance to ganglion cell death in certain optic neuropathies. <i>Journal of Neurochemistry</i> , 2008, 105, 2013-2028.   | 2.1 | 104       |
| 18 | Effects of advanced glycation end productsâ€“inductor glyoxal and hydrogen peroxide as oxidative stress factors on rat retinal organ cultures and neuroprotection by UKâ€“14,304. <i>Journal of Neurochemistry</i> , 2008, 106, 1876-1887. | 2.1 | 19        |
| 19 | Bioenergeticâ€“based neuroprotection and glaucoma. <i>Clinical and Experimental Ophthalmology</i> , 2008, 36, 377-385.   | 1.3 | 34        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 20 | Oxidative-induced apoptosis to an immortalized ganglion cell line is caspase independent but involves the activation of poly(ADP-ribose)polymerase and apoptosis-inducing factor. <i>Brain Research</i> , 2008, 1188, 35-43. | 1.1 | 100       |
| 21 | Orally administered epigallocatechin gallate attenuates retinal neuronal death in vivo and light-induced apoptosis in vitro. <i>Brain Research</i> , 2008, 1198, 141-152.  | 1.1 | 82        |
| 22 | Peroxiredoxin 6 delivery attenuates TNF- $\alpha$ -and glutamate-induced retinal ganglion cell death by limiting ROS levels and maintaining Ca <sup>2+</sup> homeostasis. <i>Brain Research</i> , 2008, 1233, 63-78.         | 1.1 | 76        |
| 23 | Mitochondrial DNA damage and its potential role in retinal degeneration. <i>Progress in Retinal and Eye Research</i> , 2008, 27, 596-607.  | 7.3 | 231       |
| 24 | The Opioidergic System: Potential Roles and Therapeutic Indications in the Eye. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2008, 24, 117-140.  | 0.6 | 8         |
| 25 | Involvement of the Bcl2 gene family in the signaling and control of retinal ganglion cell death. <i>Progress in Brain Research</i> , 2008, 173, 423-435.   | 0.9 | 58        |
| 26 | Nicotinamide attenuates retinal ischemia and light insults to neurones. <i>Neurochemistry International</i> , 2008, 52, 786-798.   | 1.9 | 38        |
| 27 | Protective effects of tetramethylpyrazine on rat retinal cell cultures. <i>Neurochemistry International</i> , 2008, 52, 1176-1187.   | 1.9 | 47        |
| 28 | The flavonoid baicalin counteracts ischemic and oxidative insults to retinal cells and lipid peroxidation to brain membranes. <i>Neurochemistry International</i> , 2008, 53, 325-337.                                       | 1.9 | 91        |
| 29 | Oxidative Stress and the Eye. <i>Veterinary Clinics of North America - Small Animal Practice</i> , 2008, 38, 179-192.  | 0.5 | 48        |
| 30 | Chapter 10 Retinal Ganglion Cells and Glaucoma. <i>Current Topics in Membranes</i> , 2008, , 301-322.  | 0.5 | 2         |
| 31 | Photoreceptor mitochondrial oxidative stress in uveitis. <i>Expert Review of Ophthalmology</i> , 2008, 3, 299-310.   | 0.3 | 3         |
| 32 | A Novel Antioxidant Function for the Tumor-Suppressor Gene p53 in the Retinal Ganglion Cell. <i>Investigative Ophthalmology and Visual Science</i> , 2008, 49, 4237-4244.  | 3.3 | 53        |
| 33 | Rational basis for the development of coenzyme Q10 as a neurotherapeutic agent for retinal protection. <i>Progress in Brain Research</i> , 2008, 173, 575-582.   | 0.9 | 57        |
| 34 | 17 $\beta$ -Estradiol prevents retinal ganglion cell loss induced by acute rise of intraocular pressure in rat. <i>Progress in Brain Research</i> , 2008, 173, 583-590.  | 0.9 | 71        |
| 35 | Astrocytes in glaucomatous optic neuropathy. <i>Progress in Brain Research</i> , 2008, 173, 353-373.   | 0.9 | 177       |
| 36 | Phosphorylation-Dependent Interaction with 14-3-3 in the Regulation of Bad Trafficking in Retinal Ganglion Cells. , 2008, 49, 2483.  |     | 60        |
| 37 | FOXO1 is required for cell viability and resistance to oxidative stress in the eye through the transcriptional regulation of FOXO1A. <i>Human Molecular Genetics</i> , 2008, 17, 490-505.                                    | 1.4 | 94        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 38 | Nipradilol Protects Rat Retinal Ganglion Cells from Apoptosis Induced by Serum Deprivation In Vitro and by Diabetes In Vivo. <i>Current Eye Research</i> , 2008, 33, 683-692.                  | 0.7 | 8         |
| 40 | Pathogenesis of ganglion cell death in glaucoma and neuroprotection: focus on ganglion cell axonal mitochondria. <i>Progress in Brain Research</i> , 2008, 173, 339-352.                       | 0.9 | 139       |
| 41 | Glaucoma as a neuropathy amenable to neuroprotection and immune manipulation. <i>Progress in Brain Research</i> , 2008, 173, 375-384.  | 0.9 | 18        |
| 42 | Gene Expression and Functional Studies of the Optic Nerve Head Astrocyte Transcriptome from Normal African Americans and Caucasian Americans Donors. <i>PLoS ONE</i> , 2008, 3, e2847.         | 1.1 | 19        |
| 43 | Protective Effect of Thioredoxins 1 and 2 in Retinal Ganglion Cells after Optic Nerve Transection and Oxidative Stress. , 2008, 49, 3535.  |     | 50        |
| 44 | Overexpression of Myocilin in the Drosophila Eye Activates the Unfolded Protein Response: Implications for Glaucoma. <i>PLoS ONE</i> , 2009, 4, e4216.   | 1.1 | 41        |
| 45 | The Role of Glia, Mitochondria, and the Immune System in Glaucoma. , 2009, 50, 1001.   |     | 144       |
| 46 | Retinal cell apoptosis. <i>Expert Review of Ophthalmology</i> , 2009, 4, 27-45.  | 0.3 | 4         |
| 47 | Differential Modulation of MAPKs in Relation to Increased Intraocular Pressure in the Aqueous Humor of Rat Eye Injected with Hyaluronic Acid. <i>Current Eye Research</i> , 2009, 34, 466-475. | 0.7 | 9         |
| 48 | Chapter 28 Identification of Novel Pharmacological Targets to Minimize Excitotoxic Retinal Damage. <i>International Review of Neurobiology</i> , 2009, 85, 407-423.                            | 0.9 | 28        |
| 49 | Expression of Prostaglandin PGE2 Receptors under Conditions of Aging and Stress and the Protective Effect of the EP2 Agonist Butaprost on Retinal Ischemia. , 2009, 50, 3238.                  |     | 15        |
| 50 | Edaravone, a Free Radical Scavenger, Protects against Retinal Damage in Vitro and in Vivo. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2009, 329, 687-698.                  | 1.3 | 67        |
| 51 | An attempt to prevent senescence: A mitochondrial approach. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 437-461.  | 0.5 | 359       |
| 52 | Immune maintenance in glaucoma: boosting the body's own neuroprotective potential. <i>Journal of Ocular Biology, Diseases, and Informatics</i> , 2009, 2, 73-77.                               | 0.2 | 12        |
| 54 | Evaluation of nine candidate genes in patients with normal tension glaucoma: a case control study. <i>BMC Medical Genetics</i> , 2009, 10, 91.   | 2.1 | 43        |
| 55 | Redox proteins thioredoxin 1 and thioredoxin 2 support retinal ganglion cell survival in experimental glaucoma. <i>Gene Therapy</i> , 2009, 16, 17-25.   | 2.3 | 74        |
| 56 | Luminol prevents decreases in glutamate, glutathione, and glutamine synthetase in the retinas of glaucomatous DBA/2J mice. <i>Veterinary Ophthalmology</i> , 2009, 12, 325-332.                | 0.6 | 22        |
| 57 | Novel role for the $\mu$ -opioid receptor in hypoxic preconditioning in rat retinas. <i>Journal of Neurochemistry</i> , 2009, 108, 741-754.  | 2.1 | 66        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 58 | Mitochondrial function and redox control in the aging eye: Role of MsrA and other repair systems in cataract and macular degenerations. <i>Experimental Eye Research</i> , 2009, 88, 195-203.   | 1.2 | 163       |
| 59 | Latanoprost protects rat retinal ganglion cells from apoptosis in vitro and in vivo. <i>Experimental Eye Research</i> , 2009, 88, 535-541.  | 1.2 | 38        |
| 60 | Immunoregulation of retinal ganglion cell fate in glaucoma. <i>Experimental Eye Research</i> , 2009, 88, 825-830.   | 1.2 | 119       |
| 61 | Brain-derived neurotrophic factor released from engineered mesenchymal stem cells attenuates glutamate- and hydrogen peroxide-mediated death of staurosporine-differentiated RGC-5 cells. <i>Experimental Eye Research</i> , 2009, 89, 538-548. | 1.2 | 65        |
| 62 | Red blood cell plasmalogens and docosahexaenoic acid are independently reduced in primary open-angle glaucoma. <i>Experimental Eye Research</i> , 2009, 89, 840-853.  | 1.2 | 50        |
| 63 | Secondary degeneration of the optic nerve following partial transection: The benefits of lomerizine. <i>Experimental Neurology</i> , 2009, 216, 219-230.  | 2.0 | 63        |
| 64 | Gene Therapy Targeting Glaucoma: Where Are We?. <i>Survey of Ophthalmology</i> , 2009, 54, 472-486.   | 1.7 | 36        |
| 65 | Mitochondrial Dysfunction and Glaucoma. <i>Journal of Glaucoma</i> , 2009, 18, 93-100.  | 0.8 | 217       |
| 66 | Retinal Oxidative Stress Induced by Intraocular Hypertension in Rats May be Ameliorated by Brimonidine Treatment and N-acetyl Cysteine Supplementation. <i>Journal of Glaucoma</i> , 2009, 18, 662-665.   | 0.8 | 40        |
| 67 | Reduced-serum vitamin C and increased uric acid levels in normal-tension glaucoma. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2010, 248, 243-248.  | 1.0 | 63        |
| 68 | Targeted preventive measures and advanced approaches in personalised treatment of glaucoma neuropathy. <i>EPMA Journal</i> , 2010, 1, 229-235.  | 3.3 | 20        |
| 69 | Sulbutiamine Counteracts Trophic Factor Deprivation Induced Apoptotic Cell Death in Transformed Retinal Ganglion Cells. <i>Neurochemical Research</i> , 2010, 35, 1828-1839.  | 1.6 | 21        |
| 70 | Suppressive effect of astaxanthin on retinal injury induced by elevated intraocular pressure. <i>Regulatory Toxicology and Pharmacology</i> , 2010, 58, 121-130.  | 1.3 | 40        |
| 71 | Modulation of mitochondria in the axon and soma of retinal ganglion cells in a rat glaucoma model. <i>Journal of Neurochemistry</i> , 2010, 115, 1508-1519.   | 2.1 | 46        |
| 72 | Time Course Changes of Oxidative Stress Markers in a Rat Experimental Glaucoma Model. , 2010, 51, 4635.   |     | 49        |
| 73 | Global Gene Expression Changes in Rat Retinal Ganglion Cells in Experimental Glaucoma. , 2010, 51, 4084.  |     | 49        |
| 74 | Protection of the Retina by Rapid Diffusion of Hydrogen: Administration of Hydrogen-Loaded Eye Drops in Retinal Ischemiaâ€“Reperfusion Injury. , 2010, 51, 487.   |     | 154       |
| 75 | Glaucomatous Tissue Stress and the Regulation of Immune Response through Glial Toll-like Receptor Signaling. , 2010, 51, 5697.  |     | 157       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 76 | Association of Polymorphisms of Tumor Necrosis Factor and Tumor Protein p53 with Primary Open-Angle Glaucoma. , 2010, 51, 4110.  |     | 83        |
| 77 | Elevated Albumin in Retinas of Monkeys with Experimental Glaucoma. , 2010, 51, 952.  |     | 11        |
| 78 | Near Infrared Light Reduces Oxidative Stress and Preserves function in CNS Tissue Vulnerable to Secondary Degeneration following Partial Transection of the Optic Nerve. Journal of Neurotrauma, 2010, 27, 2107-2119.    | 1.7 | 54        |
| 79 | Metabolic Vulnerability Disposes Retinal Ganglion Cell Axons to Dysfunction in a Model of Glaucomatous Degeneration. Journal of Neuroscience, 2010, 30, 5644-5652.   | 1.7 | 135       |
| 80 | Tumor Necrosis Factor- $\alpha$ Concentrations in the Aqueous Humor of Patients with Glaucoma. , 2010, 51, 903.  |     | 141       |
| 81 | Lutein Protects RGC-5 Cells Against Hypoxia and Oxidative Stress. International Journal of Molecular Sciences, 2010, 11, 2109-2117.  | 1.8 | 72        |
| 82 | Mechanisms of Retinal Ganglion Cell Injury in Aging and Glaucoma. Ophthalmic Research, 2010, 44, 173-178.  | 1.0 | 55        |
| 83 | The Importance of Mitochondria in Age-Related and Inherited Eye Disorders. Ophthalmic Research, 2010, 44, 179-190.   | 1.0 | 91        |
| 84 | Proteome Alterations in Primary Open Angle Glaucoma Aqueous Humor. Journal of Proteome Research, 2010, 9, 4831-4838.   | 1.8 | 86        |
| 85 | Hyperbaric Oxygen Preconditioning Promotes Survival of Retinal Ganglion Cells in a Rat Model of Optic Nerve Crush. Journal of Neurotrauma, 2010, 27, 763-770.  | 1.7 | 30        |
| 86 | Reactive oxygen species promote localized DNA damage in glaucoma-iris tissues of elderly patients vulnerable to diabetic injury. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 697, 19-23. | 0.9 | 22        |
| 87 | Isoquercitrin is the most effective antioxidant in the plant Thuja orientalis and able to counteract oxidative-induced damage to a transformed cell line (RGC-5 cells). Neurochemistry International, 2010, 57, 713-721. | 1.9 | 119       |
| 88 | Phospholipases A2 in ocular homeostasis and diseases. Biochimie, 2010, 92, 611-619.  | 1.3 | 18        |
| 89 | Limited restoration of visual function after partial optic nerve injury; a time course study using the calcium channel blocker lomerizine. Brain Research Bulletin, 2010, 81, 467-471.                                   | 1.4 | 29        |
| 90 | Reaction of Müller cells in an experimental rat model of increased intraocular pressure following timolol, latanoprost and brimonidine. Brain Research Bulletin, 2010, 82, 18-24.  | 1.4 | 41        |
| 91 | Mitochondria: Their role in ganglion cell death and survival in primary open angle glaucoma. Experimental Eye Research, 2010, 90, 750-757.   | 1.2 | 179       |
| 92 | Mechanisms of retinal ganglion cell injury and defense in glaucoma. Experimental Eye Research, 2010, 91, 48-53.  | 1.2 | 166       |
| 93 | Neuroprotection in glaucoma – Is there a future role?. Experimental Eye Research, 2010, 91, 554-566.   | 1.2 | 143       |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 94  | The compound isolated from the leaves of <i>Phyllostachys nigra</i> protects oxidative stress-induced retinal ganglion cells death. <i>Food and Chemical Toxicology</i> , 2010, 48, 1721-1727. | 1.8 | 36        |
| 95  | Expression of Myocilin Mutants Sensitizes Cells to Oxidative Stress-Induced Apoptosis. <i>American Journal of Pathology</i> , 2010, 176, 2880-2890.  | 1.9 | 60        |
| 96  | Hemoglobin Expression and Regulation in Glaucoma: Insights into Retinal Ganglion Cell Oxygenation. , 2010, 51, 907.  |     | 67        |
| 97  | Early Events of Secondary Degeneration after Partial Optic Nerve Transection: An Immunohistochemical Study. <i>Journal of Neurotrauma</i> , 2010, 27, 439-452.                                 | 1.7 | 98        |
| 98  | Dietary Deficiency of Vitamin E Aggravates Retinal Ganglion Cell Death in Experimental Glaucoma of Rats. <i>Current Eye Research</i> , 2010, 35, 842-849.                                      | 0.7 | 42        |
| 99  | Platelet-Derived Growth Factor Receptor Alpha Is Associated with Oxidative Stress-Induced Retinal Cell Death. <i>Current Eye Research</i> , 2011, 36, 336-340.                                 | 0.7 | 18        |
| 100 | Antioxidant Status and Oxidative Stress in Primary Open Angle Glaucoma and Pseudoexfoliative Glaucoma. <i>Current Eye Research</i> , 2011, 36, 713-718.  | 0.7 | 90        |
| 101 | Neuroglobin Is an Endogenous Neuroprotectant for Retinal Ganglion Cells against Glaucomatous Damage. <i>American Journal of Pathology</i> , 2011, 179, 2788-2797.                              | 1.9 | 47        |
| 102 | The immune response in glaucoma: A perspective on the roles of oxidative stress. <i>Experimental Eye Research</i> , 2011, 93, 178-186.   | 1.2 | 120       |
| 103 | Mitochondrial dysfunction in glaucoma and emerging bioenergetic therapies. <i>Experimental Eye Research</i> , 2011, 93, 204-212.   | 1.2 | 142       |
| 104 | The case for autoimmunity in glaucoma. <i>Experimental Eye Research</i> , 2011, 93, 187-190.   | 1.2 | 66        |
| 105 | The expression of dynein light chain DYNLL1 (LC8-1) is persistently downregulated in glaucomatous rat retinal ganglion cells. <i>Experimental Eye Research</i> , 2011, 92, 138-146.            | 1.2 | 8         |
| 106 | Manganese porphyrin reduces retinal injury induced by ocular hypertension in rats. <i>Experimental Eye Research</i> , 2011, 93, 387-396.   | 1.2 | 15        |
| 107 | Edible wild vegetable, <i>Gymnaster koraiensis</i> protects retinal ganglion cells against oxidative stress. <i>Food and Chemical Toxicology</i> , 2011, 49, 2131-2143.                        | 1.8 | 21        |
| 108 | Ability of Dorzolamide Hydrochloride and Timolol Maleate to Target Mitochondria in Glaucoma Therapy. <i>JAMA Ophthalmology</i> , 2011, 129, 48.  | 2.6 | 33        |
| 109 | Tumor necrosis factor-alpha (TNF-&alpha;) levels in aqueous humor of primary open angle glaucoma. <i>Clinical Ophthalmology</i> , 2011, 5, 553.  | 0.9 | 64        |
| 110 | Neuroprotective Agents in Glaucoma. , 2011, , .  |     | 2         |
| 111 | Mechanism of Aqueous Humor Secretion, Its Regulation and Relevance to Glaucoma. , 0, , .   |     | 9         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 112 | Ischemic Tolerance Protects the Rat Retina from Glaucomatous Damage. PLoS ONE, 2011, 6, e23763.  | 1.1 | 17        |
| 113 | The Evaluation of the Oxidative Stress Parameters in Patients with Primary Angle-Closure Glaucoma. PLoS ONE, 2011, 6, e27218.  | 1.1 | 55        |
| 114 | Mitochondrial-Targeted Plastoquinone Derivatives. Effect on Senescence and Acute Age-Related Pathologies. Current Drug Targets, 2011, 12, 800-826.                           | 1.0 | 147       |
| 115 | Broadening our focus in the search for cell transplantation-based glaucoma therapies. Eye, 2011, 25, 541-543.  | 1.1 | 1         |
| 116 | The role of blood pressure in glaucoma. Australasian journal of optometry, The, 2011, 94, 133-149.   | 0.6 | 113       |
| 117 | Use of calcium channel blockers for glaucoma. Progress in Retinal and Eye Research, 2011, 30, 54-71.   | 7.3 | 70        |
| 118 | Evaluation of oxidative stress markers in pathogenesis of primary open-angle glaucoma. Experimental and Molecular Pathology, 2011, 90, 231-237.                              | 0.9 | 68        |
| 119 | Zinc desferrioxamine attenuates retinal degeneration in the rd10 mouse model of retinitis pigmentosa. Free Radical Biology and Medicine, 2011, 51, 1482-1491.                | 1.3 | 55        |
| 122 | Senescent Phenotype of Trabecular Meshwork Cells Displays Biomarkers in Primary Open-Angle Glaucoma. Current Molecular Medicine, 2011, 11, 528-552.                          | 0.6 | 35        |
| 123 | Quantitative Proteomics: TGF $\beta$ 2 Signaling in Trabecular Meshwork Cells. , 2011, 52, 8287.   |     | 61        |
| 124 | Early Gene Expression Changes in the Retinal Ganglion Cell Layer of a Rat Glaucoma Model. , 2011, 52, 1460.  |     | 66        |
| 125 | The Role of N-Methyl-D-Aspartate Receptor Activation in Homocysteine-Induced Death of Retinal Ganglion Cells. , 2011, 52, 5515.  |     | 82        |
| 126 | Chronic Swelling and Abnormal Myelination during Secondary Degeneration after Partial Injury to a Central Nervous System Tract. Journal of Neurotrauma, 2011, 28, 1077-1088. | 1.7 | 32        |
| 127 | Studies on Veterinary Medicine. Oxidative Stress in Applied Basic Research and Clinical Practice, 2011, , .  | 0.4 | 3         |
| 128 | Autophagy promotes survival of retinal ganglion cells after optic nerve axotomy in mice. Cell Death and Differentiation, 2012, 19, 162-169.                                  | 5.0 | 196       |
| 129 | The Cell and Molecular Biology of Glaucoma: Common Neurodegenerative Pathways and Relevance to Glaucoma. , 2012, 53, 2485.   |     | 49        |
| 130 | AUTOPHAGY IN THE RETINA: DEVELOPMENT, PHYSIOLOGY AND PATHOLOGY. , 2012, , 149-173.   |     | 1         |
| 131 | Role of Oxidative Stress in Retinal Photoreceptor Cell Death in N-Methyl-N-nitrosourea Treated Mice. Journal of Pharmacological Sciences, 2012, 118, 351-362.                | 1.1 | 45        |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 132 | N-Acetylcysteine Protects Against Hypoxia Mimetic-Induced Autophagy by Targeting the HIF-1 $\alpha$ Pathway in Retinal Ganglion Cells. <i>Cellular and Molecular Neurobiology</i> , 2012, 32, 1275-1285.                 | 1.7 | 33        |
| 133 | Protective Effect of Grape Seed Extract against Oxidative Stress-Induced Cell Death in a Staurosporine-Differentiated Retinal Ganglion Cell Line. <i>Current Eye Research</i> , 2012, 37, 339-344.                       | 0.7 | 11        |
| 134 | Myelin Sheath Decompaction, Axon Swelling, and Functional Loss during Chronic Secondary Degeneration in Rat Optic Nerve. , 2012, 53, 6093.   |     | 72        |
| 135 | Optic Nerve Disease and Axon Pathophysiology. <i>International Review of Neurobiology</i> , 2012, 105, 1-17.   | 0.9 | 42        |
| 136 | Valproate promotes survival of retinal ganglion cells in a rat model of optic nerve crush. <i>Neuroscience</i> , 2012, 224, 282-293.   | 1.1 | 48        |
| 137 | TGF- $\beta$ <sup>2</sup> and H <sub>2</sub> O <sub>2</sub> -Induced Biological Changes in Optic Nerve Head Astrocytes Are Reduced by the Antioxidant Alpha-Lipoic Acid. <i>Ophthalmic Research</i> , 2012, 48, 156-164. | 1.0 | 8         |
| 138 | Status of Systemic Oxidative Stresses in Patients with Primary Open-Angle Glaucoma and Pseudoexfoliation Syndrome. <i>PLoS ONE</i> , 2012, 7, e49680.  | 1.1 | 78        |
| 139 | Mitochondrial Inhibition in Rat Retinal Cell Cultures as a Model of Metabolic Compromise: Mechanisms of Injury and Neuroprotection. , 2012, 53, 4897.  |     | 22        |
| 140 | The Effect of Melatonin on Retinal Ganglion Cell Survival in Ischemic Retina. <i>Chonnam Medical Journal</i> , 2012, 48, 116.  | 0.5 | 25        |
| 141 | Oxidative stress defense and repair systems of the ocular lens. <i>Frontiers in Bioscience - Elite</i> , 2012, E4, 141.  | 0.9 | 24        |
| 142 | Edible Seaweed, <i>Eisenia bicyclis</i> , Protects Retinal Ganglion Cells Death Caused by Oxidative Stress. <i>Marine Biotechnology</i> , 2012, 14, 383-395.   | 1.1 | 19        |
| 143 | The molecular basis of retinal ganglion cell death in glaucoma. <i>Progress in Retinal and Eye Research</i> , 2012, 31, 152-181.   | 7.3 | 755       |
| 144 | Retinal ganglion cells: Energetics, compartmentation, axonal transport, cytoskeletons and vulnerability. <i>Progress in Retinal and Eye Research</i> , 2013, 36, 217-246.  | 7.3 | 160       |
| 145 | The Role of Inflammation in the Pathogenesis of Glaucoma. <i>Survey of Ophthalmology</i> , 2013, 58, 311-320.  | 1.7 | 168       |
| 146 | 8-Hydroxycalamenene isolated from the rhizomes of <i>Reynoutria elliptica</i> exerts neuroprotective effects both in vitro and in vivo. <i>Food and Chemical Toxicology</i> , 2013, 51, 231-241.                         | 1.8 | 5         |
| 147 | The eye as a model of ageing in translational research – Molecular, epigenetic and clinical aspects. <i>Ageing Research Reviews</i> , 2013, 12, 490-508.   | 5.0 | 39        |
| 148 | Protective effect of lipoic acid against oxidative stress is mediated by Keap1/Nrf2-dependent heme oxygenase-1 induction in the RGC-5 cellline. <i>Brain Research</i> , 2013, 1499, 145-157.                             | 1.1 | 95        |
| 149 | Does autoimmunity play a part in the pathogenesis of glaucoma?. <i>Progress in Retinal and Eye Research</i> , 2013, 36, 199-216.   | 7.3 | 73        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 150 | High doses of cobalt induce optic and auditory neuropathy. <i>Experimental and Toxicologic Pathology</i> , 2013, 65, 719-727.  | 2.1 | 60        |
| 151 | Elevated maxi-K <sup>+</sup> ion channel current in glaucomatous lamina cribrosa cells. <i>Experimental Eye Research</i> , 2013, 115, 224-229.   | 1.2 | 11        |
| 152 | Glaucoma: An Extension of Various Chronic Neurodegenerative Disorders. <i>Molecular Neurobiology</i> , 2013, 48, 186-189.  | 1.9 | 37        |
| 153 | Delta-Opioid Agonist SNC-121 Protects Retinal Ganglion Cell Function in a Chronic Ocular Hypertensive Rat Model. , 2013, 54, 1816.   |     | 33        |
| 154 | Neuro-protection of retinal stem cells transplantation combined with copolymer-1 immunization in a rat model of glaucoma. <i>Molecular and Cellular Neurosciences</i> , 2013, 54, 1-8.                 | 1.0 | 20        |
| 155 | Brain antioxidant status in a high pressure-induced rat model of glaucoma. <i>Acta Ophthalmologica</i> , 2013, 91, e64-70.   | 0.6 | 9         |
| 156 | The Pathogenesis of Glaucoma in the Interplay with the Immune System. , 2013, 54, 2393.  |     | 86        |
| 157 | Vitamin E Reduces TGF-beta2-induced Changes in Human Trabecular Meshwork Cells. <i>Current Eye Research</i> , 2013, 38, 952-958.   | 0.7 | 10        |
| 158 | Protective effects of the compounds isolated from the seed of <i>Psoralea corylifolia</i> on oxidative stress-induced retinal damage. <i>Toxicology and Applied Pharmacology</i> , 2013, 269, 109-120. | 1.3 | 48        |
| 159 | A proteomics view of the molecular mechanisms and biomarkers of glaucomatous neurodegeneration. <i>Progress in Retinal and Eye Research</i> , 2013, 35, 18-43.   | 7.3 | 50        |
| 160 | Evaluation of presumptive biomarkers of oxidative stress, immune response and apoptosis in primary open-angle glaucoma. <i>Current Opinion in Pharmacology</i> , 2013, 13, 98-107.                     | 1.7 | 64        |
| 161 | Magnesium: Effect on ocular health as a calcium channel antagonist. <i>Journal of Clinical and Experimental Investigations</i> , 2013, 4, .  | 0.1 | 2         |
| 162 | Increased Urinary 8-Hydroxy-2-deoxyguanosine (8-OHdG)/Creatinine Level is Associated with the Progression of Normal-Tension Glaucoma. <i>Current Eye Research</i> , 2013, 38, 983-988.                 | 0.7 | 21        |
| 163 | Central Nervous System Changes in Glaucoma. <i>Journal of Glaucoma</i> , 2013, 22, S24-S25.  | 0.8 | 18        |
| 164 | ROS Detoxification and Proinflammatory Cytokines Are Linked by p38 MAPK Signaling in a Model of Mature Astrocyte Activation. <i>PLoS ONE</i> , 2013, 8, e83049.  | 1.1 | 54        |
| 165 | Inhibition of oxidative stress by coenzyme Q10 increases mitochondrial mass and improves bioenergetic function in optic nerve head astrocytes. <i>Cell Death and Disease</i> , 2013, 4, e820-e820.     | 2.7 | 103       |
| 166 | Decreased Total Antioxidants in Patients with Primary Open Angle Glaucoma. <i>Current Eye Research</i> , 2013, 38, 959-964.  | 0.7 | 30        |
| 167 | Endothelial Graft Failure After Contralateral Autologous Corneal Transplantation. <i>Cornea</i> , 2013, 32, 745-750.   | 0.9 | 8         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 168 | Ginsenoside Rb1 protects rat retinal ganglion cells against hypoxia and oxidative stress. <i>Molecular Medicine Reports</i> , 2013, 8, 1397-1403.  | 1.1 | 19        |
| 169 | Photopic Negative Response versus Pattern Electroretinogram in Early Glaucoma. , 2013, 54, 1182.   |     | 102       |
| 170 | Association of Glutathione S transferases Polymorphisms with Glaucoma: A Meta-Analysis. <i>PLoS ONE</i> , 2013, 8, e54037.   | 1.1 | 19        |
| 171 | Molecular mechanisms of retinal ganglion cell degeneration in glaucoma and future prospects for cell body and axonal protection. <i>Frontiers in Cellular Neuroscience</i> , 2012, 6, 60.            | 1.8 | 79        |
| 173 | Differences in Gene Expression in Lymphocytes of Patients with High-tension, PEX, and Normal-tension Glaucoma and in Healthy Subjects. <i>European Journal of Ophthalmology</i> , 2013, 23, 841-849. | 0.7 | 8         |
| 174 | Experimental Glaucoma After Oxidative Stress and Modulation of the Consequent Apoptotic Events in a Rat Model. , 2013, , .   |     | 1         |
| 175 | Strategies for Neuroprotection in Glaucoma. , 2013, , .  |     | 0         |
| 176 | Interferon-Gamma (IFN- $\gamma$ )-Mediated Retinal Ganglion Cell Death in Human Tyrosinase T Cell Receptor Transgenic Mouse. <i>PLoS ONE</i> , 2014, 9, e89392.                                      | 1.1 | 8         |
| 177 | Oligomerization of Optineurin and Its Oxidative Stress- or E50K Mutation-Driven Covalent Cross-Linking: Possible Relationship with Glaucoma Pathology. <i>PLoS ONE</i> , 2014, 9, e101206.           | 1.1 | 30        |
| 178 | Resveratrol and the Human Retina. , 2014, , 481-491.   |     | 1         |
| 179 | Oxidative stress and its downstream signaling in aging eyes. <i>Clinical Interventions in Aging</i> , 2014, 9, 637.  | 1.3 | 91        |
| 180 | Association of Mn-SOD Mutation (c.47T $\rightarrow$ C) with Various POAG Clinical Indices. <i>Ophthalmic Genetics</i> , 2014, 35, 85-90.   | 0.5 | 21        |
| 181 | Cellular stress response, redox status, and vitagenes in glaucoma: a systemic oxidant disorder linked to Alzheimer's disease. <i>Frontiers in Pharmacology</i> , 2014, 5, 129.                       | 1.6 | 49        |
| 182 | Glaucoma and Antioxidant Status. , 2014, , 87-96.  |     | 2         |
| 183 | The Role of Magnesium in the Pathogenesis and Treatment of Glaucoma. <i>International Scholarly Research Notices</i> , 2014, 2014, 1-7.  | 0.9 | 18        |
| 184 | Confocal scanning laser tomography of the optic nerve head on the patients with Alzheimer's disease compared to glaucoma and control. <i>International Ophthalmology</i> , 2014, 34, 1203-1211.      | 0.6 | 23        |
| 185 | Critical neuroprotective roles of heme oxygenase-1 induction against axonal injury-induced retinal ganglion cell death. <i>Journal of Neuroscience Research</i> , 2014, 92, 1134-1142.               | 1.3 | 15        |
| 186 | A decade of proteomics studies of glaucomatous neurodegeneration. <i>Proteomics - Clinical Applications</i> , 2014, 8, 154-167.  | 0.8 | 20        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 187 | Potential Therapeutic Effects of Baicalein, Baicalin, and Wogonin in Ocular Disorders. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2014, 30, 605-614.   | 0.6 | 60        |
| 188 | Retinal transcriptome profiling at transcription start sites: a cap analysis of gene expression early after axonal injury. <i>BMC Genomics</i> , 2014, 15, 982.  | 1.2 | 26        |
| 189 | Downregulation of microRNA-100 protects apoptosis and promotes neuronal growth in retinal ganglion cells. <i>BMC Molecular Biology</i> , 2014, 15, 25.   | 3.0 | 36        |
| 190 | Effects of Coenzyme Q10 in Conjunction With Vitamin E on Retinal-evoked and Cortical-evoked Responses in Patients With Open-angle Glaucoma. <i>Journal of Glaucoma</i> , 2014, 23, 391-404.  | 0.8 | 75        |
| 191 | Evaluation of Retinal Nerve Fiber Layer Thickness and Axonal Transport 1 and 2 Weeks After 8 Hours of Acute Intraocular Pressure Elevation in Rats. , 2014, 55, 674.   |     | 62        |
| 192 | PGC-1 $\alpha$ Signaling Coordinates Susceptibility to Metabolic and Oxidative Injury in the Inner Retina. <i>American Journal of Pathology</i> , 2014, 184, 1017-1029.  | 1.9 | 42        |
| 193 | Focus on molecular events in the anterior chamber leading to glaucoma. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 2197-2218.  | 2.4 | 47        |
| 194 | Taurine: The comeback of a nutraceutical in the prevention of retinal degenerations. <i>Progress in Retinal and Eye Research</i> , 2014, 41, 44-63.  | 7.3 | 90        |
| 195 | Dynamic, in vivo, real-time detection of retinal oxidative status in a model of elevated intraocular pressure using a novel, reversibly responsive, profluorescent nitroxide probe. <i>Experimental Eye Research</i> , 2014, 129, 48-56. | 1.2 | 18        |
| 196 | Reactive species and oxidative stress in optic nerve vulnerable to secondary degeneration. <i>Experimental Neurology</i> , 2014, 261, 136-146.   | 2.0 | 32        |
| 198 | From Mechanosensitivity to Inflammatory Responses: New Players in the Pathology of Glaucoma. <i>Current Eye Research</i> , 2014, 39, 105-119.  | 0.7 | 146       |
| 199 | Coenzyme Q10 Inhibits Glutamate Excitotoxicity and Oxidative Stress–Mediated Mitochondrial Alteration in a Mouse Model of Glaucoma. , 2014, 55, 993.   |     | 144       |
| 200 | Dietary Polyunsaturated Fatty Acids, Intraocular Pressure, and Glaucoma. , 2014, , 111-119.  |     | 1         |
| 201 | Aging-related changes of optic nerve of Wistar albino rats. <i>Age</i> , 2014, 36, 519-532.  | 3.0 | 9         |
| 202 | Americanin B protects cultured human keratinocytes against oxidative stress by exerting antioxidant effects. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2014, 50, 766-777.  | 0.7 | 4         |
| 203 | The Expression Changes of Myelin and Lymphocyte Protein (MAL) Following Optic Nerve Crush in Adult Rats Retinal Ganglion Cells. <i>Journal of Molecular Neuroscience</i> , 2014, 54, 614-621.  | 1.1 | 12        |
| 204 | Functional expression of electron transport chain complexes in mouse rod outer segments. <i>Biochimie</i> , 2014, 102, 78-82.  | 1.3 | 21        |
| 205 | Metal chelator combined with permeability enhancer ameliorates oxidative stress-associated neurodegeneration in rat eyes with elevated intraocular pressure. <i>Free Radical Biology and Medicine</i> , 2014, 69, 289-299.               | 1.3 | 21        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 206 | Neuroprotective Effects of Methyl 3,4-dihydroxybenzoate Against H <sub>2</sub> O <sub>2</sub> -Induced Apoptosis in RGC-5 Cells. <i>Journal of Pharmacological Sciences</i> , 2014, 125, 51-58.                        | 1.1 | 15        |
| 207 | Melatonin Signaling in the Control of Plasmodium Development and Replication. , 2014, , 184-193.   |     | 0         |
| 208 | Natural compounds and retinal ganglion cell neuroprotection. <i>Progress in Brain Research</i> , 2015, 220, 257-281.   | 0.9 | 18        |
| 209 | Potential regulatory molecules in the human trabecular meshwork of patients with glaucoma: Immunohistochemical profile of a number of inflammatory cytokines. <i>Molecular Medicine Reports</i> , 2015, 11, 1384-1390. | 1.1 | 47        |
| 210 | Effects of phenolic acid metabolites formed after chlorogenic acid consumption on retinal degeneration in vivo. <i>Molecular Nutrition and Food Research</i> , 2015, 59, 1918-1929.                                    | 1.5 | 20        |
| 211 | Effect of <i>Lycium barbarum</i> (Wolfberry) on Alleviating Axonal Degeneration after Partial Optic Nerve Transection. <i>Cell Transplantation</i> , 2015, 24, 403-417.  | 1.2 | 29        |
| 212 | Glaucoma as a Neurodegenerative Disease. <i>Journal of Neuro-Ophthalmology</i> , 2015, 35, S22-S28.  | 0.4 | 60        |
| 213 | Association of total antioxidants level with glaucoma type and severity. <i>Journal of King Abdulaziz University, Islamic Economics</i> , 2015, 36, 671-677.   | 0.5 | 35        |
| 214 | Proteomics Analysis of Molecular Risk Factors in the Ocular Hypertensive Human Retina. , 2015, 56, 5816.   |     | 37        |
| 215 | The Utility of Iron Chelators in the Management of Inflammatory Disorders. <i>Mediators of Inflammation</i> , 2015, 2015, 1-12.  | 1.4 | 39        |
| 216 | Oxidative Stress in Lens. <i>Oxidative Stress in Applied Basic Research and Clinical Practice</i> , 2015, , 187-207.   | 0.4 | 3         |
| 217 | Increased mitochondrial fission and volume density by blocking glutamate excitotoxicity protect glaucomatous optic nerve head astrocytes. <i>Glia</i> , 2015, 63, 736-753.   | 2.5 | 56        |
| 218 | <i>Lycium Barbarum</i> and Human Health. , 2015, , .   |     | 13        |
| 219 | Mitochondrial Genetics and Optic Neuropathy. <i>Annual Review of Vision Science</i> , 2015, 1, 97-124.   | 2.3 | 5         |
| 220 | Pharmacotherapy of Glaucoma. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2015, 31, 63-77.   | 0.6 | 121       |
| 221 | The Dysfunction of the Trabecular Meshwork During Glaucoma Course. <i>Journal of Cellular Physiology</i> , 2015, 230, 510-525.   | 2.0 | 88        |
| 222 | Novel Potential Treatment Modalities for Ocular Hypertension: Focus on Angiotensin and Bradykinin System Axes. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2015, 31, 131-145.                             | 0.6 | 13        |
| 223 | Activation of TLR3 Promotes the Degeneration of Retinal Ganglion Cells by Upregulating the Protein Levels of JNK3. <i>Investigative Ophthalmology and Visual Science</i> , 2015, 56, 505-514.                          | 3.3 | 20        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 224 | Autophagy in glaucoma: Crosstalk with apoptosis and its implications. Brain Research Bulletin, 2015, 117, 1-9.  | 1.4 | 46        |
| 225 | The role of base excision repair in the development of primary open angle glaucoma in the Polish population. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 778, 26-40.   | 0.4 | 12        |
| 226 | Inhibition of miR-134 Protects Against Hydrogen Peroxide-Induced Apoptosis in Retinal Ganglion Cells. Journal of Molecular Neuroscience, 2015, 56, 461-471.   | 1.1 | 18        |
| 227 | Protective effects of protocatechuic acid on retinal ganglion cells from oxidative damage induced by H <sub>2</sub> O <sub>2</sub> . Neurological Research, 2015, 37, 159-166.  | 0.6 | 10        |
| 228 | Inhibition of N-Methyl-d-aspartate-induced Retinal Neuronal Death by Polyarginine Peptides Is Linked to the Attenuation of Stress-induced Hyperpolarization of the Inner Mitochondrial Membrane Potential. Journal of Biological Chemistry, 2015, 290, 22030-22048. | 1.6 | 51        |
| 229 | Mutated myocilin and heterozygous Sod2 deficiency act synergistically in a mouse model of open-angle glaucoma. Human Molecular Genetics, 2015, 24, 3322-3334.   | 1.4 | 21        |
| 230 | Molecular biomarkers in primary open-angle glaucoma. Progress in Brain Research, 2015, 221, 1-32.   | 0.9 | 26        |
| 231 | Definition, Classification, and Pathophysiology of Canine Glaucoma. Veterinary Clinics of North America - Small Animal Practice, 2015, 45, 1127-1157.   | 0.5 | 19        |
| 232 | DRP1 inhibition rescues retinal ganglion cells and their axons by preserving mitochondrial integrity in a mouse model of glaucoma. Cell Death and Disease, 2015, 6, e1839-e1839.  | 2.7 | 94        |
| 233 | Lower Macular Pigment Optical Density in Foveal-Involved Glaucoma. Ophthalmology, 2015, 122, 2029-2037.   | 2.5 | 29        |
| 234 | Programmed cell death-1 is expressed in large retinal ganglion cells and is upregulated after optic nerve crush. Experimental Eye Research, 2015, 140, 1-9.   | 1.2 | 13        |
| 235 | Neuroprotection and Neurorepair. , 2015, , 625-637.   |     | 0         |
| 237 | Cumulative mtDNA damage and mutations contribute to the progressive loss of RGCs in a rat model of glaucoma. Neurobiology of Disease, 2015, 74, 167-179.  | 2.1 | 32        |
| 238 | Endothelin-1 levels and biomarkers of oxidative stress in glaucoma patients. International Ophthalmology, 2015, 35, 527-532.  | 0.6 | 35        |
| 239 | Quantitative and Topographical Analysis of the Losses of Cone Photoreceptors and Retinal Ganglion Cells Under Taurine Depletion. , 2016, 57, 4692.  |     | 31        |
| 240 | Oxidative Stress-Induced Dysfunction of Müller Cells During Starvation. , 2016, 57, 2721.   |     | 34        |
| 241 | Involvement of AMPA Receptor and Its Flip and Flop Isoforms in Retinal Ganglion Cell Death Following Oxygen/Glucose Deprivation. , 2016, 57, 508.   |     | 14        |
| 242 | Interphotoreceptor Retinoid-Binding Protein Mitigates Cellular Oxidative Stress and Mitochondrial Dysfunction Induced by All-trans-Retinal. , 2016, 57, 1553.   |     | 26        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 243 | The potential utilizations of hydrogen as a promising therapeutic strategy against ocular diseases. Therapeutics and Clinical Risk Management, 2016, 12, 799.  | 0.9 | 7         |
| 244 | The role of Cat -262C/T, GPX1 Pro198Leu and Sod1+35A/C gene polymorphisms in a development of primary open-angle glaucoma in a Polish population. Polish Journal of Pathology, 2016, 4, 404-410.   | 0.1 | 7         |
| 245 | Down-Regulation of RNA 3'ε-Terminal Phosphate Cyclase Attenuates Toll-Like Receptor 3-Mediated Axonal Loss in the Retina and Optic Nerve. , 2016, 57, 5338.  |     | 0         |
| 246 | Glia-Neuron Interactions in the Retina Can Be Studied in Cocultures of M¼ller Cells and Retinal Ganglion Cells. BioMed Research International, 2016, 2016, 1-10.   | 0.9 | 41        |
| 247 | The Role of the Reactive Oxygen Species and Oxidative Stress in the Pathomechanism of the Age-Related Ocular Diseases and Other Pathologies of the Anterior and Posterior Eye Segments in Adults. Oxidative Medicine and Cellular Longevity, 2016, 2016, 1-23. | 1.9 | 976       |
| 248 | Antioxidant Treatment Limits Neuroinflammation in Experimental Glaucoma. , 2016, 57, 2344.   |     | 65        |
| 249 | Citicoline: A Food Beneficial for Patients Suffering from or Threatened with Glaucoma. Frontiers in Aging Neuroscience, 2016, 8, 73.   | 1.7 | 20        |
| 250 | Neuroprotective Effects of Methyl 3,4-Dihydroxybenzoate against TBHP-Induced Oxidative Damage in SH-SY5Y Cells. Molecules, 2016, 21, 1071.   | 1.7 | 20        |
| 251 | Clinical Factors Associated with Lamina Cribrosa Thickness in Patients with Glaucoma, as Measured with Swept Source Optical Coherence Tomography. PLoS ONE, 2016, 11, e0153707.  | 1.1 | 30        |
| 252 | Intraocular Pressure Induced Retinal Changes Identified Using Synchrotron Infrared Microscopy. PLoS ONE, 2016, 11, e0164035.   | 1.1 | 5         |
| 253 | Longitudinal Analysis of Serum Autoantibody-Reactivities in Patients with Primary Open Angle Glaucoma and Optic Disc Hemorrhage. PLoS ONE, 2016, 11, e0166813.   | 1.1 | 9         |
| 254 | Trabecular Meshwork and Intraocular Pressure Dynamics: Oxidative Stressε-Induced Changes. , 2016, , .  |     | 0         |
| 255 | Role of the nucleolus in neurodegenerative diseases with particular reference to the retina: a review. Clinical and Experimental Ophthalmology, 2016, 44, 188-195.   | 1.3 | 6         |
| 256 | Reactive Oxygen Species and the Aging Eye. American Journal of Therapeutics, 2016, 23, e98-e117.   | 0.5 | 74        |
| 257 | Is There Any Role for the Choroid in Glaucoma?. Journal of Glaucoma, 2016, 25, 452-458.  | 0.8 | 23        |
| 258 | Long nonε-coding <sc>RNA MALAT</sc> 1 regulates retinal neurodegeneration through <sc>CREB</sc> signaling. EMBO Molecular Medicine, 2016, 8, 346-362.  | 3.3 | 99        |
| 259 | Glaucoma related Proteomic Alterations in Human Retina Samples. Scientific Reports, 2016, 6, 29759.  | 1.6 | 46        |
| 260 | Role of sodium nitroprusside in regulating retinal ganglion cell damage through mitochondrial transcription factor A. Neuroscience Letters, 2016, 635, 90-96.  | 1.0 | 2         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 261 | New strategies for neuroprotection in glaucoma, a disease that affects the central nervous system. <i>European Journal of Pharmacology</i> , 2016, 787, 119-126.   | 1.7 | 39        |
| 262 | Glaucoma: Focus on mitochondria in relation to pathogenesis and neuroprotection. <i>European Journal of Pharmacology</i> , 2016, 787, 127-133.   | 1.7 | 76        |
| 263 | Pharmacologic inhibition of reactive gliosis blocks TNF- $\alpha$ -mediated neuronal apoptosis. <i>Cell Death and Disease</i> , 2016, 7, e2386-e2386.  | 2.7 | 39        |
| 264 | Expression of CXCL6 and BBS5 that may be glaucoma relevant genes is regulated by PITX2. <i>Gene</i> , 2016, 593, 76-83.  | 1.0 | 11        |
| 265 | Autophagy in the eye: Development, degeneration, and aging. <i>Progress in Retinal and Eye Research</i> , 2016, 55, 206-245.   | 7.3 | 184       |
| 266 | In vitro bioassay model for screening non-viral neurotrophic factor gene delivery systems for glaucoma treatment. <i>Drug Delivery and Translational Research</i> , 2016, 6, 676-685.  | 3.0 | 10        |
| 267 | Neuroprotective Effect of Ocular Hypotensive Drugs: Latanoprost/Timolol in Combination Are More Effective than Each as Monotherapy in RGC-5. <i>Biological and Pharmaceutical Bulletin</i> , 2016, 39, 192-198.  | 0.6 | 9         |
| 268 | Protective Effect of Dimethyl Fumarate on an Oxidative Stress Model Induced by Sodium Nitroprusside in Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2016, 39, 1055-1059.  | 0.6 | 9         |
| 269 | Lutein and Zeaxanthin Isomers in Eye Health and Disease. <i>Annual Review of Nutrition</i> , 2016, 36, 571-602.  | 4.3 | 161       |
| 270 | Neuroglobin: From structure to function in health and disease. <i>Molecular Aspects of Medicine</i> , 2016, 52, 1-48.  | 2.7 | 91        |
| 271 | Generation of reactive oxygen species in the anterior eye segment. Synergistic codrugs of N-acetylcarnosine lubricant eye drops and mitochondria-targeted antioxidant act as a powerful therapeutic platform for the treatment of cataracts and primary open-angle glaucoma. <i>BBA Clinical</i> , 2016, 6, 49-68. | 4.1 | 49        |
| 272 | Autoimmune aspects in glaucoma. <i>European Journal of Pharmacology</i> , 2016, 787, 105-118.  | 1.7 | 22        |
| 273 | Grapes and Health. , 2016, , .   |     | 8         |
| 274 | Blue Light Action on Mitochondria Leads to Cell Death by Necroptosis. <i>Neurochemical Research</i> , 2016, 41, 2324-2335.   | 1.6 | 52        |
| 275 | Bilateral neuroinflammatory processes in visual pathways induced by unilateral ocular hypertension in the rat. <i>Journal of Neuroinflammation</i> , 2016, 13, 44.   | 3.1 | 51        |
| 276 | The p.Gly61Glu Mutation in <i>CYP1B1</i> Affects the Extracellular Matrix in Glaucoma Patients. <i>Ophthalmic Research</i> , 2016, 56, 98-103.   | 1.0 | 10        |
| 277 | Neuroprotective effect of lignans extracted from <i>Eucommia ulmoides</i> Oliv. on glaucoma-related neurodegeneration. <i>Neurological Sciences</i> , 2016, 37, 755-762.   | 0.9 | 19        |
| 278 | Insights into neurosensory toxicity of mercury in fish eyes stemming from tissue burdens, oxidative stress and synaptic transmission profiles. <i>Marine Environmental Research</i> , 2016, 113, 70-79.  | 1.1 | 13        |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 279 | Changes in parvalbumin immunoreactive retinal ganglion cells and amacrine cells after optic nerve injury. <i>Experimental Eye Research</i> , 2016, 145, 363-372.  | 1.2 | 9         |
| 280 | Real-time quantification of oxidative stress and the protective effect of nitroxide antioxidants. <i>Neurochemistry International</i> , 2016, 92, 1-12.   | 1.9 | 25        |
| 281 | Mangiferin Protects Retinal Ganglion Cells in Ischemic Mouse Retina via SIRT1. <i>Current Eye Research</i> , 2016, 41, 844-855.   | 0.7 | 28        |
| 282 | Nitric Oxide Synthase Activation as a Trigger of N-methyl-N-nitrosourea-Induced Photoreceptor Cell Death. <i>Advances in Experimental Medicine and Biology</i> , 2016, 854, 379-384.  | 0.8 | 6         |
| 283 | The role of autophagy in axonal degeneration of the optic nerve. <i>Experimental Eye Research</i> , 2016, 144, 81-89.   | 1.2 | 36        |
| 284 | Neuroprotective Effect of Lutein on NMDA-Induced Retinal Ganglion Cell Injury in Rat Retina. <i>Cellular and Molecular Neurobiology</i> , 2016, 36, 531-540.  | 1.7 | 27        |
| 285 | The protective effect of prophylactic ozone administration against retinal ischemia-reperfusion injury. <i>Cutaneous and Ocular Toxicology</i> , 2017, 36, 39-47.   | 0.5 | 10        |
| 287 | Mitochondrial function in Müller cells - Does it matter?. <i>Mitochondrion</i> , 2017, 36, 43-51.   | 1.6 | 49        |
| 288 | Management of glaucoma as a neurodegenerative disease. <i>Neurodegenerative Disease Management</i> , 2017, 7, 157-172.  | 1.2 | 32        |
| 289 | Effect of intravitreal injection of ranibizumab on retinal ganglion cells and microvessels in the early stage of diabetic retinopathy in rats with streptozotocin-induced diabetes. <i>Experimental and Therapeutic Medicine</i> , 2017, 13, 3360-3368. | 0.8 | 5         |
| 290 | Prevalence of posterior vitreous detachment in glaucoma patients and controls. <i>Acta Ophthalmologica</i> , 2017, 95, 276-280.   | 0.6 | 13        |
| 291 | Are optic nerve heads of patients with helicobacter pylori infection more susceptible to glaucomatous damage?. <i>Helicobacter</i> , 2017, 22, e12443.  | 1.6 | 1         |
| 292 | Establishment of a retinal hypoxia organ culture model. <i>Biology Open</i> , 2017, 6, 1056-1064.   | 0.6 | 18        |
| 293 | Decelerated neurodegeneration after intravitreal injection of $\beta$ -synuclein antibodies in a glaucoma animal model. <i>Scientific Reports</i> , 2017, 7, 6260.  | 1.6 | 15        |
| 294 | Neuroprotective effect of tetramethylpyrazine against all-trans-retinal toxicity in the differentiated Y-79 cells via upregulation of IRBP expression. <i>Experimental Cell Research</i> , 2017, 359, 120-128.  | 1.2 | 12        |
| 295 | A Ser75-to-Asp phospho-mimicking mutation in Src accelerates ageing-related loss of retinal ganglion cells in mice. <i>Scientific Reports</i> , 2017, 7, 16779.   | 1.6 | 6         |
| 296 | The role and therapeutic potential of melatonin in age-related ocular diseases. <i>Journal of Pineal Research</i> , 2017, 63, e12430.   | 3.4 | 54        |
| 297 | Major review: Exfoliation syndrome; advances in disease genetics, molecular biology, and epidemiology. <i>Experimental Eye Research</i> , 2017, 154, 88-103.  | 1.2 | 97        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 298 | Mesenchymal stem cells attenuate hydrogen peroxide-induced oxidative stress and enhance neuroprotective effects in retinal ganglion cells. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2017, 53, 328-335.   | 0.7 | 31        |
| 299 | P7C3 Suppresses Neuroinflammation and Protects Retinal Ganglion Cells of Rats from Optic Nerve Crush. , 2017, 58, 4877.   |     | 13        |
| 300 | Investigations into Hypoxia and Oxidative Stress at the Optic Nerve Head in a Rat Model of Glaucoma. <i>Frontiers in Neuroscience</i> , 2017, 11, 478.  | 1.4 | 73        |
| 301 | Glaucoma: Biological Trabecular and Neuroretinal Pathology with Perspectives of Therapy Innovation and Preventive Diagnosis. <i>Frontiers in Neuroscience</i> , 2017, 11, 494.  | 1.4 | 21        |
| 302 | Targeted Delivery of Mitochondrial Calcium Channel Regulators: The Future of Glaucoma Treatment?. <i>Frontiers in Neuroscience</i> , 2017, 11, 648.   | 1.4 | 6         |
| 303 | Quercetin Declines Apoptosis, Ameliorates Mitochondrial Function and Improves Retinal Ganglion Cell Survival and Function in In Vivo Model of Glaucoma in Rat and Retinal Ganglion Cell Culture In Vitro. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 285. | 1.4 | 34        |
| 304 | Oxidative Stress—Related Molecular Biomarker Candidates for Glaucoma. , 2017, 58, 4078.   |     | 42        |
| 305 | A targeted gene expression platform allows for rapid analysis of chemical-induced antioxidant mRNA expression in zebrafish larvae. <i>PLoS ONE</i> , 2017, 12, e0171025.  | 1.1 | 20        |
| 306 | Role of cyclic AMP in the eye with glaucoma. <i>BMB Reports</i> , 2017, 50, 60-70.  | 1.1 | 22        |
| 307 | Post-Vitrectomy Endophthalmitis in Victoria, Australia. <i>Asia-Pacific Journal of Ophthalmology</i> , 2017, 6, 80-93.  | 1.3 | 22        |
| 308 | A Novel Porcine Ex Vivo Retina Culture Model for Oxidative Stress Induced by H <sub>2</sub> O <sub>2</sub> . <i>ATLA Alternatives To Laboratory Animals</i> , 2017, 45, 11-25.  | 0.7 | 36        |
| 309 | Elevated intracellular cAMP exacerbates vulnerability to oxidative stress in optic nerve head astrocytes. <i>Cell Death and Disease</i> , 2018, 9, 285.   | 2.7 | 20        |
| 311 | Biological macromolecules for ophthalmic drug delivery to treat ocular diseases. <i>International Journal of Biological Macromolecules</i> , 2018, 110, 7-16.   | 3.6 | 41        |
| 312 | The AMPK-PGC-1 $\beta$ signaling axis regulates the astrocyte glutathione system to protect against oxidative and metabolic injury. <i>Neurobiology of Disease</i> , 2018, 113, 59-69.  | 2.1 | 51        |
| 313 | Growth Factors, Oxidative Damage, and Inflammation in Exfoliation Syndrome. <i>Journal of Glaucoma</i> , 2018, 27, S54-S60.   | 0.8 | 17        |
| 314 | Drugs and Devices Discovery Research: Preclinical Assays, Techniques, and Animal Model Studies for Ocular Hypotensives and Neuroprotectants. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2018, 34, 7-39.   | 0.6 | 32        |
| 315 | Ultraviolet radiation oxidative stress affects eye health. <i>Journal of Biophotonics</i> , 2018, 11, e201700377.   | 1.1 | 108       |
| 316 | Aquaporins: Novel Targets for Age-Related Ocular Disorders. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2018, 34, 177-187.   | 0.6 | 10        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 317 | Aging and ocular tissue stiffness in glaucoma. Survey of Ophthalmology, 2018, 63, 56-74.   | 1.7 | 117       |
| 318 | Targets of Neuroprotection in Glaucoma. Journal of Ocular Pharmacology and Therapeutics, 2018, 34, 85-106.   | 0.6 | 82        |
| 319 | Levels of aqueous humor trace elements in patients with open-angle glaucoma. Journal of Trace Elements in Medicine and Biology, 2018, 45, 150-155.   | 1.5 | 43        |
| 320 | Therapeutic Effects of Topical 8-Oxo-2-Deoxyguanosine on Ethanol-Induced Ocular Chemical Injury Models. Cornea, 2018, 37, 1311-1317.   | 0.9 | 9         |
| 321 | Effect of myricetin on primary open-angle glaucoma. Translational Neuroscience, 2018, 9, 132-141.  | 0.7 | 16        |
| 322 | Pilot study for three-dimensional assessment of laminar pore structure in patients with glaucoma, as measured with swept source optical coherence tomography. PLoS ONE, 2018, 13, e0207600.                              | 1.1 | 2         |
| 323 | Resveratrol: A miraculous natural compound for diseases treatment. Food Science and Nutrition, 2018, 6, 2473-2490.   | 1.5 | 150       |
| 324 | Protective effects of ciliary neurotrophic factor on the retinal ganglion cells by injure of hydrogen peroxide. International Journal of Ophthalmology, 2018, 11, 923-928.   | 0.5 | 5         |
| 325 | Cross-Sectional Imaging Analysis of Epiretinal Membrane Involvement in Unilateral Open-Angle Glaucoma Severity. , 2018, 59, 5745.  |     | 14        |
| 326 | Crosstalk of oxidative damage, apoptosis, and autophagy under endoplasmic reticulum (ER) stress involved in thifluzamide-induced liver damage in zebrafish (Danio rerio). Environmental Pollution, 2018, 243, 1904-1911. | 3.7 | 31        |
| 327 | Autofluorescence of Skin Advanced Glycation End Products as a Risk Factor for Open Angle Glaucoma: The ALIENOR Study. , 2018, 59, 75.  |     | 6         |
| 328 | Synergistic neuroprotective effect of rasagiline and idebenone against retinal ischemia-reperfusion injury via the Lin28-let-7-Dicer pathway. Oncotarget, 2018, 9, 12137-12153.  | 0.8 | 21        |
| 329 | Association of increased levels of plasma tumor necrosis factor alpha with primary open-angle glaucoma. Clinical Ophthalmology, 2018, Volume 12, 701-706.  | 0.9 | 34        |
| 330 | Age-related changes in the peripheral retinal nerve fiber layer thickness. Clinical Ophthalmology, 2018, Volume 12, 401-409.   | 0.9 | 8         |
| 331 | Aqueous humor selenium level and open-angle glaucoma. Journal of Trace Elements in Medicine and Biology, 2018, 50, 67-72.  | 1.5 | 11        |
| 332 | Ellipsoid Zone Change According to Glaucoma Stage Advancement. American Journal of Ophthalmology, 2018, 192, 1-9.  | 1.7 | 14        |
| 333 | Asiatic Acid Prevents Retinal Ganglion Cell Apoptosis in a Rat Model of Glaucoma. Frontiers in Neuroscience, 2018, 12, 489.  | 1.4 | 20        |
| 334 | Serum Bile Acids in Patients With Primary Open-angle Glaucoma. Journal of Glaucoma, 2018, 27, 687-690.   | 0.8 | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 335 | Neuroprotection in Glaucoma. <i>International Ophthalmology Clinics</i> , 2018, 58, 51-67.   | 0.3 | 5         |
| 336 | LTBP2 knockdown and oxidative stress affect glaucoma features including TGF $\beta$ <sup>2</sup> pathways, ECM genes expression and apoptosis in trabecular meshwork cells. <i>Gene</i> , 2018, 673, 70-81.                            | 1.0 | 27        |
| 337 | Evaluation of oxidative stress in pseudo-exfoliative glaucoma patients treated with and without topical coenzyme Q10 and vitamin E. <i>European Journal of Ophthalmology</i> , 2019, 29, 196-201.                                      | 0.7 | 26        |
| 338 | Hybrid Compound SA-2 is Neuroprotective in Animal Models of Retinal Ganglion Cell Death. , 2019, 60, 3064.   |     | 25        |
| 339 | Retinal Organ Cultures as Alternative Research Models. <i>ATLA Alternatives To Laboratory Animals</i> , 2019, 47, 19-29.   | 0.7 | 28        |
| 340 | Neuroprotective Effect of Ginkgo Biloba Extract Against Hypoxic Retinal Ganglion Cell Degeneration <i>In Vitro</i> and <i>In Vivo</i> . <i>Journal of Medicinal Food</i> , 2019, 22, 771-778.  | 0.8 | 17        |
| 341 | Normal tension glaucoma-like degeneration of the visual system in aged marmosets. <i>Scientific Reports</i> , 2019, 9, 14852.  | 1.6 | 20        |
| 342 | Extracellular Signal-Regulated Kinase 1/2 Pathway Is Insufficiently Involved in the Neuroprotective Effect by Hydrogen Sulfide Supplement in Experimental Glaucoma. , 2019, 60, 4346.  |     | 8         |
| 343 | Identification of genes involved in glaucoma pathogenesis using combined network analysis and empirical studies. <i>Human Molecular Genetics</i> , 2019, 28, 3637-3663.  | 1.4 | 11        |
| 344 | Mitochondrial Peptide Humanin Protects Silver Nanoparticles-Induced Neurotoxicity in Human Neuroblastoma Cancer Cells (SH-SY5Y). <i>International Journal of Molecular Sciences</i> , 2019, 20, 4439.                                  | 1.8 | 31        |
| 345 | A small peptide antagonist of the Fas receptor inhibits neuroinflammation and prevents axon degeneration and retinal ganglion cell death in an inducible mouse model of glaucoma. <i>Journal of Neuroinflammation</i> , 2019, 16, 184. | 3.1 | 87        |
| 346 | Neuroprotective and neuroregenerative effects of CRMP-5 on retinal ganglion cells in an experimental in vivo and in vitro model of glaucoma. <i>PLoS ONE</i> , 2019, 14, e0207190.   | 1.1 | 7         |
| 347 | Increased Aqueous Humor Symmetric Dimethylarginine Level in Patients with Primary Open Angle Glaucoma. <i>Current Eye Research</i> , 2019, 44, 619-622.  | 0.7 | 5         |
| 348 | Simultaneous co-delivery of neuroprotective drugs from multi-loaded PLGA microspheres for the treatment of glaucoma. <i>Journal of Controlled Release</i> , 2019, 297, 26-38.  | 4.8 | 57        |
| 349 | Glaucoma and Antioxidant Status. , 2019, , 203-219.  |     | 2         |
| 350 | Dietary Polyunsaturated Fatty Acids, Intraocular Pressure, and Glaucoma. , 2019, , 497-511.  |     | 0         |
| 351 | Vitreomacular Interface Abnormalities and Glaucoma in an Elderly Population (The MONTRACHET) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50  |     | 6         |
| 352 | Potential role of P2X7 receptor in neurodegenerative processes in a murine model of glaucoma. <i>Brain Research Bulletin</i> , 2019, 150, 61-74.   | 1.4 | 25        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 353 | Restoring retinal neurovascular health via substance P. <i>Experimental Cell Research</i> , 2019, 380, 115-123.  | 1.2 | 12        |
| 354 | Immunomodulation as a Neuroprotective Strategy for Glaucoma Treatment. <i>Current Ophthalmology Reports</i> , 2019, 7, 160-169.  | 0.5 | 20        |
| 355 | The Contribution of Fluoride to the Pathogenesis of Eye Diseases: Molecular Mechanisms and Implications for Public Health. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 856.   | 1.2 | 12        |
| 357 | Novel Therapeutic Targets for Glaucoma: Disease Modification Treatment, Neuroprotection, and Neuroregeneration. , 2019, , 147-176.   |     | 0         |
| 358 | Racioethnic differences in the biomechanical response of the lamina cribrosa. <i>Acta Biomaterialia</i> , 2019, 88, 131-140.   | 4.1 | 22        |
| 359 | Elevated Intraocular Pressure Causes Abnormal Reactivity of Mouse Retinal Arterioles. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-12.   | 1.9 | 34        |
| 360 | Inhibition of cAMP/PKA Pathway Protects Optic Nerve Head Astrocytes against Oxidative Stress by Akt/Bax Phosphorylation-Mediated Mfn1/2 Oligomerization. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-16.  | 1.9 | 18        |
| 361 | Posttreatment Intervention With <i>Lycium Barbarum</i> Polysaccharides is Neuroprotective in a Rat Model of Chronic Ocular Hypertension. , 2019, 60, 4606.   |     | 22        |
| 362 | Kinetics of Glutathione Depletion and Antioxidant Gene Expression as Indicators of Chemical Modes of Action Assessed <i>in Vitro</i> in Mouse Hepatocytes with Enhanced Glutathione Synthesis. <i>Chemical Research in Toxicology</i> , 2019, 32, 421-436.                   | 1.7 | 8         |
| 363 | Evidence of Hypoxic Glial Cells in a Model of Ocular Hypertension. , 2019, 60, 1.  |     | 24        |
| 364 | All roads lead to glaucoma: Induced retinal injury cascades contribute to a common neurodegenerative outcome. <i>Experimental Eye Research</i> , 2019, 183, 88-97.   | 1.2 | 65        |
| 365 | Transactive response DNA binding protein of 43/histone deacetylase 6 axis alleviates H <sub>2</sub> O <sub>2</sub> -induced retinal ganglion cells injury through inhibiting apoptosis and autophagy. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 4312-4320.        | 1.2 | 9         |
| 367 | Mutational Analysis of the Mitochondrial DNA Displacement-Loop Region in Human Retinoblastoma with Patient Outcome. <i>Pathology and Oncology Research</i> , 2019, 25, 503-512.  | 0.9 | 6         |
| 368 | Vitreous albumin redox state in open-angle glaucoma patients and controls: a pilot study. <i>International Ophthalmology</i> , 2020, 40, 999-1006.   | 0.6 | 6         |
| 369 | Resveratrol Protects Optic Nerve Head Astrocytes from Oxidative Stress-Induced Cell Death by Preventing Caspase-3 Activation, Tau Dephosphorylation at Ser422 and Formation of Misfolded Protein Aggregates. <i>Cellular and Molecular Neurobiology</i> , 2020, 40, 911-926. | 1.7 | 17        |
| 370 | Benzoic acid derivative-modified chitosan-g-poly(N-isopropylacrylamide): Methoxylation effects and pharmacological treatments of Glaucoma-related neurodegeneration. <i>Journal of Controlled Release</i> , 2020, 317, 246-258.  | 4.8 | 41        |
| 371 | Neuroinflammation in Primary Open-Angle Glaucoma. <i>Journal of Clinical Medicine</i> , 2020, 9, 3172.   | 1.0 | 42        |
| 372 | Inflammation in Glaucoma: From the back to the front of the eye, and beyond. <i>Progress in Retinal and Eye Research</i> , 2021, 83, 100916.   | 7.3 | 183       |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 373 | Naturally occurring neuroprotectants in glaucoma. <i>Progress in Brain Research</i> , 2020, 257, 119-140.  | 0.9 | 1         |
| 374 | Effect of Ubiquinol on Glaucomatous Neurodegeneration and Oxidative Stress: Studies for Retinal Ganglion Cell Survival and/or Visual Function. <i>Antioxidants</i> , 2020, 9, 952.                       | 2.2 | 11        |
| 375 | A 3D Model of Human Trabecular Meshwork for the Research Study of Glaucoma. <i>Frontiers in Neurology</i> , 2020, 11, 591776.  | 1.1 | 7         |
| 376 | Corneal Stiffness and Collagen Cross-Linking Proteins in Glaucoma: Potential for Novel Therapeutic Strategy. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2020, 36, 582-594.                 | 0.6 | 14        |
| 377 | &lt;p&gt;Potential Therapeutic Usage of Nanomedicine for Glaucoma Treatment&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 5745-5765.  | 3.3 | 31        |
| 378 | Potential Therapeutic Benefit of NAD+ Supplementation for Glaucoma and Age-Related Macular Degeneration. <i>Nutrients</i> , 2020, 12, 2871.  | 1.7 | 19        |
| 379 | Glaucoma causes redox imbalance in the primary visual cortex by modulating NADPH oxidase-4, iNOS, and Nrf2 pathway in a rat experimental model. <i>Experimental Eye Research</i> , 2020, 200, 108225.    | 1.2 | 11        |
| 380 | Advanced Glycation End Product Accumulation in Subjects with Open-Angle Glaucoma with and without Exfoliation. <i>Antioxidants</i> , 2020, 9, 755.   | 2.2 | 12        |
| 381 | Oxidative Stress and Vascular Dysfunction in the Retina: Therapeutic Strategies. <i>Antioxidants</i> , 2020, 9, 761.   | 2.2 | 53        |
| 382 | Global assessment of arteriolar, venular and capillary changes in normal tension glaucoma. <i>Scientific Reports</i> , 2020, 10, 19222.  | 1.6 | 14        |
| 383 | Glaucoma as a Neurodegenerative Disease Caused by Intrinsic Vulnerability Factors. <i>Progress in Neurobiology</i> , 2020, 193, 101817.  | 2.8 | 27        |
| 384 | Elevated Plasma Level of 8-Hydroxy-2â€²-deoxyguanosine Is Associated with Primary Open-Angle Glaucoma. <i>Journal of Ophthalmology</i> , 2020, 2020, 1-8.  | 0.6 | 10        |
| 385 | Structural Characterization of Glaucoma Patients with Low Ocular Blood Flow. <i>Current Eye Research</i> , 2020, 45, 1302-1308.  | 0.7 | 2         |
| 386 | Mitochondrial Dysfunction as a Novel Target for Neuroprotective Nutraceuticals in Ocular Diseases. <i>Nutrients</i> , 2020, 12, 1950.  | 1.7 | 7         |
| 388 | The expression and role of PIDD in retina after optic nerve crush. <i>Journal of Molecular Histology</i> , 2020, 51, 89-97.  | 1.0 | 2         |
| 389 | Acute changes in the retina and central retinal artery with methamphetamine. <i>Experimental Eye Research</i> , 2020, 193, 107964.   | 1.2 | 6         |
| 390 | Therapeutic Contact Lens for Scavenging Excessive Reactive Oxygen Species on the Ocular Surface. <i>ACS Nano</i> , 2020, 14, 2483-2496.  | 7.3 | 68        |
| 391 | Protective Effect of 2â€²,3â€²-Dihydroxy-4â€²,6â€²-dimethoxychalcone on Glutamate-Induced Neurotoxicity in Primary Cortical Cultures. <i>Biological and Pharmaceutical Bulletin</i> , 2020, 43, 184-187. | 0.6 | 2         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 393 | Hydrogen Sulfide and $\beta$ -Synuclein Are Involved and Interlinked in the Aging Glaucomatous Retina. <i>Journal of Ophthalmology</i> , 2020, 2020, 1-12.   | 0.6 | 9         |
| 394 | A transient decrease in mitochondrial activity contributes to establish the ganglion cell fate in retina adapted for high acuity vision. <i>Developmental Biology</i> , 2021, 469, 96-110.                                   | 0.9 | 5         |
| 395 | Retinal energy metabolism in health and glaucoma. <i>Progress in Retinal and Eye Research</i> , 2021, 81, 100881.  | 7.3 | 52        |
| 396 | Extraocular, periocular, and intraocular routes for sustained drug delivery for glaucoma. <i>Progress in Retinal and Eye Research</i> , 2021, 82, 100901.  | 7.3 | 51        |
| 397 | Immunological and molecular basics of the primary open angle glaucoma pathomechanism. <i>Central-European Journal of Immunology</i> , 2021, 46, 111-117.   | 0.4 | 7         |
| 398 | Antioxidant Defenses in the Human Eye: A Focus on Metallothioneins. <i>Antioxidants</i> , 2021, 10, 89.  | 2.2 | 48        |
| 399 | Looking into the future: Gene and cell therapies for glaucoma. <i>Veterinary Ophthalmology</i> , 2021, 24, 16-33.  | 0.6 | 20        |
| 400 | Plant molecules to treat eye mitochondria. , 2021, , 339-356.  |     | 0         |
| 401 | Scavenging reactive oxygen species is a potential strategy to protect <i>Larimichthys crocea</i> against environmental hypoxia by mitigating oxidative stress. <i>Zoological Research</i> , 2021, 42, 592-605.               | 0.9 | 18        |
| 402 | Aging of the sensory systems: hearing and vision disorders. , 2021, , 297-321.   |     | 2         |
| 403 | Serum Selenium Levels in Glaucoma: a Pilot Study. <i>Klinische Monatsblätter Fur Augenheilkunde</i> , 2022, 239, 326-330.  | 0.3 | 1         |
| 404 | Nicotinamide mononucleotide (NMN) protects hEnd.3 cells against H <sub>2</sub> O <sub>2</sub> -induced damage via NAMPT and the NF- $\kappa$ B p53 signalling pathway. <i>FEBS Open Bio</i> , 2021, 11, 866-879.             | 1.0 | 9         |
| 405 | Huperzine A lowers intraocular pressure via the M3 mAChR and provides retinal neuroprotection via the M1 mAChR: a promising agent for the treatment of glaucoma. <i>Annals of Translational Medicine</i> , 2021, 9, 332-332. | 0.7 | 7         |
| 406 | Crosstalk between MicroRNA and Oxidative Stress in Primary Open-Angle Glaucoma. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2421.   | 1.8 | 34        |
| 407 | Antiglaucoma Potential of $\beta$ -Glucogallin Is Mediated by Modulating Mitochondrial Responses in Experimentally Induced Glaucoma. <i>NeuroImmunoModulation</i> , 2020, 27, 142-151.                                       | 0.9 | 6         |
| 408 | Oxidative Stress and the Role of NADPH Oxidase in Glaucoma. <i>Antioxidants</i> , 2021, 10, 238.   | 2.2 | 24        |
| 409 | Plasma fatty acids and primary open-angle glaucoma in the elderly: the Montrachet population-based study. <i>BMC Ophthalmology</i> , 2021, 21, 146.  | 0.6 | 7         |
| 410 | Association of Genetic Polymorphisms in Oxidative Stress and Inflammation Pathways with Glaucoma Risk and Phenotype. <i>Journal of Clinical Medicine</i> , 2021, 10, 1148.   | 1.0 | 11        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 411 | Mitochondria and Eye. , 0, , .  |     | 0         |
| 412 | Caffeine and Its Neuroprotective Role in Ischemic Events: A Mechanism Dependent on Adenosine Receptors. Cellular and Molecular Neurobiology, 2021, , 1.   | 1.7 | 8         |
| 413 | Current Perspective of Hydrogen Sulfide as a Novel Gaseous Modulator of Oxidative Stress in Glaucoma. Antioxidants, 2021, 10, 671.  | 2.2 | 7         |
| 414 | Antioxidants for the Treatment of Retinal Disease: Summary of Recent Evidence. Clinical Ophthalmology, 2021, Volume 15, 1621-1628.  | 0.9 | 17        |
| 415 | TGF $\beta$ 21, MMPs and cytokines profiles in ocular surface: Possible tear biomarkers for pseudoexfoliation. PLoS ONE, 2021, 16, e0249759.  | 1.1 | 16        |
| 416 | Proteomic analysis of aged and OPTN E50K retina in the development of normal tension glaucoma. Human Molecular Genetics, 2021, 30, 1030-1044.   | 1.4 | 9         |
| 417 | Mitochondrial function is impaired in the primary visual cortex in an experimental glaucoma model. Archives of Biochemistry and Biophysics, 2021, 701, 108815.  | 1.4 | 9         |
| 418 | The potential of marine resources for retinal diseases: a systematic review of the molecular mechanisms. Critical Reviews in Food Science and Nutrition, 2022, 62, 7518-7560.                                       | 5.4 | 11        |
| 419 | Elevated dimethylarginine, ATP, cytokines, metabolic remodeling involving tryptophan metabolism and potential microglial inflammation characterize primary open angle glaucoma. Scientific Reports, 2021, 11, 9766. | 1.6 | 18        |
| 420 | Targeted delivery of LM22A-4 by cubosomes protects retinal ganglion cells in an experimental glaucoma model. Acta Biomaterialia, 2021, 126, 433-444.  | 4.1 | 12        |
| 421 | Carotenoids in the Management of Glaucoma: A Systematic Review of the Evidence. Nutrients, 2021, 13, 1949.  | 1.7 | 14        |
| 422 | The role of genetic factors in the pathogenesis of primary open-angle glaucoma. Part 1. Connective tissue. Ophthalmology Journal, 2021, 14, 89-100.   | 0.1 | 0         |
| 423 | Multifactorial Pathogenic Processes of Retinal Ganglion Cell Degeneration in Glaucoma towards Multi-Target Strategies for Broader Treatment Effects. Cells, 2021, 10, 1372.   | 1.8 | 23        |
| 424 | Retinal oxidative stress activates the NRF2/ARE pathway: An early endogenous protective response to ocular hypertension. Redox Biology, 2021, 42, 101883.   | 3.9 | 25        |
| 425 | The Effect of Dietary Antioxidant Supplementation in Patients with Glaucoma. Clinical Ophthalmology, 2021, Volume 15, 2293-2300.  | 0.9 | 16        |
| 426 | Role of biometals in activation of immune cum inflammatory response in ovine ageing eye: a potential model for understanding human geriatric eye diseases. BioMetals, 2021, 34, 1081-1098.                          | 1.8 | 2         |
| 427 | Switch to Autophagy the Key Mechanism for Trabecular Meshwork Death in Severe Glaucoma. Clinical Ophthalmology, 2021, Volume 15, 3027-3039.   | 0.9 | 7         |
| 428 | Crosstalk Between Dysfunctional Mitochondria and Inflammation in Glaucomatous Neurodegeneration. Frontiers in Pharmacology, 2021, 12, 699623.   | 1.6 | 47        |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 429 | Effects of a New Combination of Natural Extracts on Glaucoma-Related Retinal Degeneration. <i>Foods</i> , 2021, 10, 1885.  | 1.9 | 3         |
| 430 | Targeting the NLRP3 Inflammasome in Glaucoma. <i>Biomolecules</i> , 2021, 11, 1239.  | 1.8 | 22        |
| 431 | Molecular regulation of neuroinflammation in glaucoma: Current knowledge and the ongoing search for new treatment targets. <i>Progress in Retinal and Eye Research</i> , 2022, 87, 100998.                                       | 7.3 | 55        |
| 432 | Non-drug interventions in glaucoma: Putative roles for lifestyle, diet and nutritional supplements. <i>Survey of Ophthalmology</i> , 2022, 67, 675-696.  | 1.7 | 11        |
| 433 | Therapeutic Drugs and Devices for Tackling Ocular Hypertension and Glaucoma, and Need for Neuroprotection and Cytoprotective Therapies. <i>Frontiers in Pharmacology</i> , 2021, 12, 729249.                                     | 1.6 | 34        |
| 434 | Adaptive responses to neurodegenerative stress in glaucoma. <i>Progress in Retinal and Eye Research</i> , 2021, 84, 100953.  | 7.3 | 57        |
| 435 | Tannic acid extracted from gallnut prevents post-weaning diarrhea and improves intestinal health of weaned piglets. <i>Animal Nutrition</i> , 2021, 7, 1078-1086.  | 2.1 | 20        |
| 437 | Thioredoxins 1 and 2 Protect Retinal Ganglion Cells from Pharmacologically Induced Oxidative Stress, Optic Nerve Transection and Ocular Hypertension. <i>Advances in Experimental Medicine and Biology</i> , 2010, 664, 355-363. | 0.8 | 16        |
| 438 | Taurine Is a Crucial Factor to Preserve Retinal Ganglion Cell Survival. <i>Advances in Experimental Medicine and Biology</i> , 2013, 775, 69-83.   | 0.8 | 26        |
| 439 | Calcium and Calpain Activation. , 2014, , 13-24.   |     | 2         |
| 440 | Secondary Degeneration After Partial Optic Nerve Injury and Possible Neuroprotective Effects of Lycium Barbarum (Wolfberry). , 2015, , 135-151.  |     | 2         |
| 441 | Central nervous system changes in glaucoma. , 2010, , 200-206.   |     | 1         |
| 442 | A broad perspective on the molecular regulation of retinal ganglion cell degeneration in glaucoma. <i>Progress in Brain Research</i> , 2020, 256, 49-77.   | 0.9 | 8         |
| 443 | Neuroprotection: A versatile approach to combat glaucoma. <i>European Journal of Pharmacology</i> , 2020, 881, 173208.   | 1.7 | 17        |
| 444 | Neuroimmunological Aspects in Glaucoma. <i>Klinische Monatsblätter Für Augenheilkunde</i> , 2021, 238, 125-127.  | 0.3 | 2         |
| 446 | The potential role of glutamate transporters in the pathogenesis of normal tension glaucoma. <i>Journal of Clinical Investigation</i> , 2007, 117, 1763-1770.  | 3.9 | 285       |
| 447 | Taurine Provides Neuroprotection against Retinal Ganglion Cell Degeneration. <i>PLoS ONE</i> , 2012, 7, e42017.  | 1.1 | 74        |
| 448 | The Role of Peroxisome Proliferator-Activated Receptor and Effects of Its Agonist, Pioglitazone, on a Rat Model of Optic Nerve Crush: PPAR $\gamma$ in Retinal Neuroprotection. <i>PLoS ONE</i> , 2013, 8, e68935.               | 1.1 | 29        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 449 | Oxidant/antioxidant balance in the aqueous humor of patients with glaucoma. <i>International Journal of Ophthalmology</i> , 2016, 9, 249-52.  | 0.5 | 15        |
| 450 | Decreased paraoxonase1 activity and increased malondialdehyde and oxidative DNA damage levels in primary open angle glaucoma. <i>International Journal of Ophthalmology</i> , 2016, 9, 1518-1520.                           | 0.5 | 16        |
| 451 | Pigment epithelium-derived factor protects retinal ganglion cells from hypoxia-induced apoptosis by preventing mitochondrial dysfunction. <i>International Journal of Ophthalmology</i> , 2017, 10, 1046-1054.              | 0.5 | 12        |
| 452 | Cellular Stress and General Pathological Processes. <i>Current Pharmaceutical Design</i> , 2019, 25, 251-297.   | 0.9 | 27        |
| 453 | Lipid Nanoparticles as Carriers for the Treatment of Neurodegeneration Associated with Alzheimer's Disease and Glaucoma: Present and Future Challenges. <i>Current Pharmaceutical Design</i> , 2020, 26, 1235-1250.         | 0.9 | 14        |
| 454 | Enhanced Antioxidant and Protective Activities on Retinal Ganglion Cells of Carotenoids-Overexpressing Transgenic Carrot. <i>Current Drug Targets</i> , 2013, 14, 999-1005.   | 1.0 | 9         |
| 455 | Neuroprotective Strategies for the Treatment of Inherited Photoreceptor Degeneration. <i>Current Molecular Medicine</i> , 2012, 12, 598-612.  | 0.6 | 68        |
| 456 | Recent Advances on the Possible Neuroprotective Activities of Epstein- Barr Virus Oncogene BARRF1 Protein in Chronic Inflammatory Disorders of Central Nervous System. <i>Current Neuropharmacology</i> , 2010, 8, 268-275. | 1.4 | 10        |
| 457 | Rational Basis for Nutraceuticals in the Treatment of Glaucoma. <i>Current Neuropharmacology</i> , 2018, 16, 1004-1017.   | 1.4 | 20        |
| 458 | Partial Transection of Adult Rat Optic Nerve as a Model of Secondary Degeneration in the Central Nervous System. <i>Bio-protocol</i> , 2018, 8, e3118.  | 0.2 | 2         |
| 460 | Cod liver oil: a potential protective supplement for human glaucoma. <i>International Journal of Ophthalmology</i> , 2011, 4, 648-51.   | 0.5 | 16        |
| 461 | Complex genetic mechanisms in glaucoma: An overview. <i>Indian Journal of Ophthalmology</i> , 2011, 59, 31.   | 0.5 | 33        |
| 462 | Evaluation and comparison of the indices of systemic oxidative stress among black-africans with age-related cataracts or primary glaucoma. <i>Middle East African Journal of Ophthalmology</i> , 2015, 22, 489.             | 0.5 | 9         |
| 463 | Mechanisms of secondary degeneration after partial optic nerve transection. <i>Neural Regeneration Research</i> , 2014, 9, 565.   | 1.6 | 62        |
| 464 | Etomidate affects the anti-oxidant pathway to protect retinal ganglion cells after optic nerve transection. <i>Neural Regeneration Research</i> , 2019, 14, 2020.   | 1.6 | 9         |
| 465 | Lycium barbarum polysaccharides protects retinal ganglion cells against oxidative stress injury. <i>Neural Regeneration Research</i> , 2020, 15, 1526.  | 1.6 | 38        |
| 466 | Corneal alterations associated with pseudoexfoliation syndrome and glaucoma: A literature review. <i>Journal of Ophthalmic and Vision Research</i> , 2017, 12, 312.   | 0.7 | 22        |
| 467 | Phytochemical Constituents, Antioxidant Activity, and Toxicity Assessment of the Seed of <i>Spondias mombin</i> L. (Anacardiaceae). <i>Turkish Journal of Pharmaceutical Sciences</i> , 2020, 17, 343-348.                  | 0.6 | 7         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 468 | Nitrooxidative Stress and Neurodegeneration. , 0, , .   |     | 1         |
| 469 | The Effect of Curcumin and Tocotrienol on the Development of Eye Disease. Journal of Applied Pharmaceutical Science, 0, , 01-07.  | 0.7 | 2         |
| 470 | Cognitive Dysfunctions in Glaucoma: An Overview of Morpho-Functional Mechanisms and the Impact on Higher-Order Visual Function. Frontiers in Aging Neuroscience, 2021, 13, 747050.  | 1.7 | 5         |
| 471 | Wearable electronic devices for glaucoma monitoring and therapy. Materials and Design, 2021, 212, 110183.   | 3.3 | 9         |
| 472 | Immunology and Glaucoma. , 2010, , 925-931.   |     | 0         |
| 474 | Evidence of Oxidative Stress Damage in Glaucoma. , 0, , .   |     | 0         |
| 475 | Retinal Ganglion Cell Death. , 0, , .   |     | 1         |
| 476 | The Role of Mitochondrial Oxidative Stress in Retinal Dysfunction. , 2012, , 203-239.   |     | 1         |
| 477 | Brain Damage - Bridging Between Basic Research and Clinics. , 2012, , .   |     | 9         |
| 478 | Genetic risk factors and retinal ganglion cell degeneration in primary open-angle glaucoma (POAG): A bird's eye view. Advances in Bioscience and Biotechnology (Print), 2013, 04, 623-627.  | 0.3 | 0         |
| 479 | Neuroprotection in Glaucoma. , 0, , .   |     | 0         |
| 480 | Neuroprotection for Photoreceptors. , 2014, , 191-204.  |     | 0         |
| 481 | Effects of Micronutrients on Serum Antioxidant Status of Glaucoma Patients: A Randomized, Placebo-controlled, Double-masked Pilot Study. Ophthalmology Research an International Journal, 2014, 2, 1-9.                                   | 0.1 | 1         |
| 482 | A Review on Ophthalmology using Nanotechnology. Journal of Nanomedicine & Nanotechnology, 2015, 06, .   | 1.1 | 1         |
| 483 | Grapes and Vision. , 2016, , 213-235.   |     | 0         |
| 485 | Protective Effect of Perilla frutescens Extract against Oxidative Stress-Induced Cell Death in a Staurosporine-Differentiated Retinal Ganglion Cell Line. Journal of the Korean Society of Food Science and Nutrition, 2017, 46, 161-168. | 0.2 | 0         |
| 487 | Glaucoma Genes in East Asian Studies. Essentials in Ophthalmology, 2019, , 357-371.   | 0.0 | 0         |
| 488 | Oxidative Stress and Neurodegeneration. Advances in Medical Diagnosis, Treatment, and Care, 2019, , 24-47.  | 0.1 | 1         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 490 | THE EFFECT OF THE FAT-SOLUBLE FORM OF VITAMIN B1 ON THE CARBONYL METABOLITES CONTENT IN THE EYE TISSUES OF RABBITS WITH EXPERIMENTAL GLAUCOMA, AGGRAVATED BY DIABETES. Fiziolohichni Zhurnal (Kiev, Ukraine: 1994), 2020, 66, 44-50.                              | 0.1 | 0         |
| 491 | MikroRNA w patogenezie jaskry. OphthaTherapy Therapies in Ophthalmology, 0, , .   | 0.1 | 0         |
| 492 | Antioxidant Status and Lipid Metabolism in Patients with Different Forms of Primary Open-Angle Glaucoma Progression. Oftalmologiya, 2020, 17, 761-770.  | 0.2 | 3         |
| 493 | Distribution of Carotenoids and Protective Effects of Zeaxanthin on Retina of Ayu Sweetfish (<i>Plecoglossus altivelis</i>). Journal of Oleo Science, 2020, 69, 1095-1105.  | 0.6 | 3         |
| 495 | Assessment of plasma thiol-disulfide balance in pseudoexfoliation syndrome and pseudoexfoliation glaucoma. Beyoglu Eye Journal, 2020, 5, 214-218.   | 0.1 | 0         |
| 496 | OXIDATIVE STRESS AND MITOCHONDRIAL DYSFUNCTION. News of the National Academy of Sciences of the Republic of Kazakhstan Series of Biological and Medical, 2020, 2, 31-40.  | 0.0 | 0         |
| 497 | Prenatal diagnosis of primary congenital glaucoma and histopathological features in a fetal globe with<i>cytochrome p4501B1</i> mutations. European Journal of Ophthalmology, 2022, 32, 933-941.  | 0.7 | 1         |
| 500 | A Prospective Cohort Study of Muscular and Performance Fitness and Incident Glaucoma: The Niigata Wellness Study. Journal of Physical Activity and Health, 2020, 17, 1171-1178.   | 1.0 | 3         |
| 501 | Comparison of two methods used to culture and purify rat retinal MÃ¼ller cells. International Journal of Ophthalmology, 2013, 6, 778-84.  | 0.5 | 4         |
| 502 | Glutathione S-transferase M1 and T1 polymorphisms in Arab glaucoma patients. Molecular Vision, 2008, 14, 425-30.  | 1.1 | 35        |
| 503 | Estrogens and neuroprotection in retinal diseases. Molecular Vision, 2008, 14, 1480-6.  | 1.1 | 6         |
| 504 | Comet assay analysis of single-stranded DNA breaks in circulating leukocytes of glaucoma patients. Molecular Vision, 2008, 14, 1584-8.  | 1.1 | 46        |
| 505 | Human serum albumin nanoparticles for efficient delivery of Cu, Zn superoxide dismutase gene. Molecular Vision, 2007, 13, 746-57.   | 1.1 | 88        |
| 506 | Overexpression of thioredoxins 1 and 2 increases retinal ganglion cell survival after pharmacologically induced oxidative stress, optic nerve transection, and in experimental glaucoma. Transactions of the American Ophthalmological Society, 2009, 107, 161-5. | 1.4 | 22        |
| 507 | Variability of serum oxidative stress biomarkers relative to biochemical data and clinical parameters of glaucoma patients. Molecular Vision, 2010, 16, 1260-71.  | 1.1 | 61        |
| 508 | Accelerated retinal ganglion cell death in mice deficient in the Sigma-1 receptor. Molecular Vision, 2011, 17, 1034-43.   | 1.1 | 57        |
| 509 | Down-regulation of OPA1 in patients with primary open angle glaucoma. Molecular Vision, 2011, 17, 1074-9.   | 1.1 | 24        |
| 510 | XRCC1 and XPD DNA repair gene polymorphisms: a potential risk factor for glaucoma in the Pakistani population. Molecular Vision, 2011, 17, 1153-63.   | 1.1 | 16        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 511 | Neuroprotective effects of flavonoids on hypoxia-, glutamate-, and oxidative stress-induced retinal ganglion cell death. <i>Molecular Vision</i> , 2011, 17, 1784-93.   | 1.1 | 58        |
| 512 | Alterations in the aqueous humor proteome in patients with a glaucoma shunt device. <i>Molecular Vision</i> , 2011, 17, 1891-900.   | 1.1 | 58        |
| 513 | Ginkgo biloba: an adjuvant therapy for progressive normal and high tension glaucoma. <i>Molecular Vision</i> , 2012, 18, 390-402.   | 1.1 | 57        |
| 514 | Polymorphism in the TNF- $\alpha$ (-863) locus associated with reduced risk of primary open angle glaucoma. <i>Molecular Vision</i> , 2012, 18, 779-85.   | 1.1 | 24        |
| 515 | The D $\alpha$ -dopamine receptor agonist, SKF83959, attenuates hydrogen peroxide-induced injury in RGC-5 cells involving the extracellular signal-regulated kinase/p38 pathways. <i>Molecular Vision</i> , 2012, 18, 2882-95.  | 1.1 | 16        |
| 516 | Ethyl pyruvate treatment mitigates oxidative stress damage in cultured trabecular meshwork cells. <i>Molecular Vision</i> , 2013, 19, 1304-9.   | 1.1 | 16        |
| 517 | Neuroprotective and neurite outgrowth effects of maltol on retinal ganglion cells under oxidative stress. <i>Molecular Vision</i> , 2014, 20, 1456-62.  | 1.1 | 13        |
| 518 | Rationale for the use of multifunctional drugs as neuroprotective agents for glaucoma. <i>Neural Regeneration Research</i> , 2012, 7, 313-8.  | 1.6 | 3         |
| 519 | Mitochondria-Targeted Antioxidant SS-31 is a Potential Novel Ophthalmic Medication for Neuroprotection in Glaucoma. <i>Medical Hypothesis, Discovery, and Innovation in Ophthalmology</i> , 2015, 4, 120-6.   | 0.4 | 9         |
| 520 | Investigating a downstream gene of using the systems genetics method. <i>Molecular Vision</i> , 2019, 25, 222-236.  | 1.1 | 2         |
| 521 | Immunomodulation as a Neuroprotective Strategy for Glaucoma Treatment. <i>Current Ophthalmology Reports</i> , 2019, 7, 160-169.   | 0.5 | 10        |
| 522 | Association of GSTO1, GSTO2, GSTP1, GPX1 and SOD2 polymorphism with primary open angle glaucoma. <i>Experimental Eye Research</i> , 2022, 214, 108863.  | 1.2 | 2         |
| 523 | Age and intraocular pressure in murine experimental glaucoma. <i>Progress in Retinal and Eye Research</i> , 2022, 88, 101021.   | 7.3 | 15        |
| 524 | Glutathione S-Transferase Omega-2 and Transforming Growth Factor- $\beta$ 1 Polymorphisms in Iranian Glaucoma Patients. <i>Journal of Ophthalmology</i> , 2021, 2021, 1-6.  | 0.6 | 2         |
| 525 | Ouabain-Na <sup>+</sup> /K <sup>+</sup> -ATPase Signaling Regulates Retinal Neuroinflammation and ROS Production Preventing Neuronal Death by an Autophagy-Dependent Mechanism Following Optic Nerve Axotomy In Vitro. <i>Neurochemical Research</i> , 2022, 47, 723-738. | 1.6 | 7         |
| 526 | Validation of a Rapid and Easy-to-Apply Method to Simultaneously Quantify Co-Loaded Dexamethasone and Melatonin PLGA Microspheres by HPLC-UV: Encapsulation Efficiency and In Vitro Release. <i>Pharmaceutics</i> , 2022, 14, 288.  | 2.0 | 8         |
| 527 | Sequential and Dynamic Variations of IL-6, CD18, ICAM, TNF- $\alpha$ , and Microstructure in the Early Stage of Diabetic Retinopathy. <i>Disease Markers</i> , 2022, 2022, 1-14.  | 0.6 | 6         |
| 528 | Normal-tension glaucoma: Current concepts and approaches—a review. <i>Clinical and Experimental Ophthalmology</i> , 2022, 50, 247-259.  | 1.3 | 25        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 529 | Trabecular Meshwork Mitochondrial Function and Oxidative Stress. <i>Ophthalmology Science</i> , 2022, 2, 100107.   | 1.0 | 8         |
| 530 | Restoring the oxidative balance in age-related diseases – An approach in glaucoma. <i>Ageing Research Reviews</i> , 2022, 75, 101572.  | 5.0 | 15        |
| 531 | Role of Oxidative Stress in Ocular Diseases Associated with Retinal Ganglion Cells Degeneration. <i>Antioxidants</i> , 2021, 10, 1948.   | 2.2 | 34        |
| 532 | The Retinal Renin-Angiotensin-Aldosterone System: Implications for Glaucoma. <i>Antioxidants</i> , 2022, 11, 610.  | 2.2 | 5         |
| 533 | The severity of endothelial dysfunction, oxidative stress, lipid metabolism disorders, decreased elastic properties and tone of peripheral vessels in patients with different POAG course variants, depending on the polymorphism of the genes of the biological clock. <i>Rossiiskii Oftal'mologicheskii Zhurnal</i> , 2022, 15, 78-88. | 0.1 | 1         |
| 534 | A Monoclonal Anti-HMGB1 Antibody Attenuates Neurodegeneration in an Experimental Animal Model of Glaucoma. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4107.  | 1.8 | 10        |
| 535 | Polydopamine nanoparticles attenuate retina ganglion cell degeneration and restore visual function after optic nerve injury. <i>Journal of Nanobiotechnology</i> , 2021, 19, 436.  | 4.2 | 31        |
| 536 | Nutritional supplementation in the prevention and treatment of glaucoma. <i>Survey of Ophthalmology</i> , 2022, 67, 1081-1098.   | 1.7 | 10        |
| 537 | Hypoxic Processes Induce Complement Activation via Classical Pathway in Porcine Neuroretinas. <i>Cells</i> , 2021, 10, 3575.   | 1.8 | 4         |
| 538 | Global and Comparative Proteome Signatures in the Lens Capsule, Trabecular Meshwork, and Iris of Patients With Pseudoexfoliation Glaucoma. <i>Frontiers in Molecular Biosciences</i> , 2022, 9, 877250.  | 1.6 | 3         |
| 542 | Epigenetic alterations associated with dexamethasone sodium phosphate through DNMT and TET in RPE cells. <i>Molecular Vision</i> , 2021, 27, 643-655.  | 1.1 | 0         |
| 543 | Retinal Glutamate Neurotransmission: From Physiology to Pathophysiological Mechanisms of Retinal Ganglion Cell Degeneration. <i>Life</i> , 2022, 12, 638.  | 1.1 | 21        |
| 544 | The Intertwined Roles of Oxidative Stress and Endoplasmic Reticulum Stress in Glaucoma. <i>Antioxidants</i> , 2022, 11, 886.   | 2.2 | 17        |
| 545 | From Bench to Bed: The Current Genome Editing Therapies for Glaucoma. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .   | 1.8 | 4         |
| 546 | Hydrogen sulfide supplement preserves mitochondrial function of retinal ganglion cell in a rat glaucoma model. <i>Cell and Tissue Research</i> , 2022, 389, 171-185.   | 1.5 | 2         |
| 547 | DNA and RNA oxidative damage in the retina is associated with ganglion cell mitochondria. <i>Scientific Reports</i> , 2022, 12, .  | 1.6 | 9         |
| 548 | Fingertip-Measured Skin Carotenoids and Advanced Glycation End Product Levels in Glaucoma. <i>Antioxidants</i> , 2022, 11, 1138.   | 2.2 | 3         |
| 549 | Silencing of circular RNA – ZYG11B exerts a neuroprotective effect against retinal neurodegeneration. <i>International Journal of Molecular Medicine</i> , 2022, 50, .   | 1.8 | 5         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 550 | Correlation Between Enlargement of Retinal Nerve Fiber Defect Angle in En Face Imaging and Visual Field Progression. <i>Translational Vision Science and Technology</i> , 2022, 11, 8.   | 1.1 | 1         |
| 551 | The role of the pseudoexfoliative syndrome as a transitional entity to glaucoma. <i>International Surgery Journal</i> , 2022, 9, 1377.   | 0.0 | 0         |
| 552 | Clinical characteristics of glaucoma patients with various risk factors. <i>BMC Ophthalmology</i> , 2022, 22, .  | 0.6 | 5         |
| 553 | Review of Evidence for the Usage of Antioxidants for Eye Aging. <i>BioMed Research International</i> , 2022, 2022, 1-11.   | 0.9 | 8         |
| 554 | Combined Supplementation of Coenzyme Q10 and Other Nutrients in Specific Medical Conditions. <i>Nutrients</i> , 2022, 14, 4383.  | 1.7 | 3         |
| 555 | Neuroprotective Effects of Transferrin in Experimental Glaucoma Models. <i>International Journal of Molecular Sciences</i> , 2022, 23, 12753.  | 1.8 | 8         |
| 556 | Mitochondrial Dysfunction in a High Intraocular Pressure-Induced Retinal Ischemia Minipig Model. <i>Biomolecules</i> , 2022, 12, 1532.   | 1.8 | 4         |
| 557 | Dynamin-like Protein 1 (DNML1) as a Molecular Target for Antibody-Based Immunotherapy to Treat Glaucoma. <i>International Journal of Molecular Sciences</i> , 2022, 23, 13618.   | 1.8 | 4         |
| 558 | Changes in glial cells and neurotrophic factors due to rotenone-induced oxidative stress in Nrf2 knockout mice. <i>Experimental Eye Research</i> , 2023, 226, 109314.  | 1.2 | 2         |
| 559 | Anti-apoptotic and autophagic effect: Using conditioned medium from human bone marrow mesenchymal stem cells to treat human trabecular meshwork cells. <i>Regenerative Therapy</i> , 2023, 22, 50-58.  | 1.4 | 1         |
| 560 | An Overview of Dietary Approaches to Prevent the Development of Glaucoma. <i>The Indian Journal of Nutrition and Dietetics</i> , 0, , 341-361.   | 0.1 | 0         |
| 561 | Targeting Cell Membranes, Depleting ROS by Dithiane and Thioketal-Containing Polymers with Pendant Cholesterols Delivering Necrostatin-1 for Glaucoma Treatment. <i>ACS Nano</i> , 2022, 16, 21225-21239.  | 7.3 | 10        |
| 562 | Mitochondria-associated endoplasmic reticulum membranes dysfunction contributes to PARP1-dependent cell death under oxidative stress in retinal precursor cells. <i>Journal of Biochemical and Molecular Toxicology</i> , 2023, 37, .                            | 1.4 | 4         |
| 563 | The effect of citicoline oral solution on quality of life in patients with glaucoma: the results of an international, multicenter, randomized, placebo-controlled cross-over trial. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 0, , . | 1.0 | 0         |
| 564 | Neuroprotective Effects of Erinacine A on an Experimental Model of Traumatic Optic Neuropathy. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1504.  | 1.8 | 0         |
| 565 | Possibilities and prospects for antioxidant therapy in ocular diseases. <i>Meditinskiy Sovet</i> , 2023, , 263-273.  | 0.1 | 0         |
| 566 | Oxidative Stress in the Anterior Ocular Diseases: Diagnostic and Treatment. <i>Biomedicines</i> , 2023, 11, 292.   | 1.4 | 7         |
| 567 | Distinct Role of Lycium barbarum L. Polysaccharides in Oxidative Stress-Related Ocular Diseases. <i>Pharmaceuticals</i> , 2023, 16, 215.   | 1.7 | 5         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 568 | Caveolin-1 in vascular health and glaucoma: A critical vascular regulator and potential therapeutic target. <i>Frontiers in Medicine</i> , 0, 10, .   | 1.2 | 4         |
| 569 | Activation of retinal glial cells contributes to the degeneration of ganglion cells in experimental glaucoma. <i>Progress in Retinal and Eye Research</i> , 2023, 93, 101169.   | 7.3 | 16        |
| 570 | <i>Camellia sinensis</i> : Insights on its molecular mechanisms of action towards nutraceutical, anticancer potential and other therapeutic applications. <i>Arabian Journal of Chemistry</i> , 2023, 16, 104680.   | 2.3 | 13        |
| 571 | Mitochondrial Open Reading Frame of the 12S rRNA Type-c: Potential Therapeutic Candidate in Retinal Diseases. <i>Antioxidants</i> , 2023, 12, 518.  | 2.2 | 0         |
| 572 | Transient and Sustained Ganglion Cell Light Responses Are Differentially Modulated by Intrinsically Produced Reactive Oxygen Species Acting upon Specific Voltage-Gated Na <sup>+</sup> Channel Isoforms. <i>Journal of Neuroscience</i> , 2023, 43, 2291-2304. | 1.7 | 3         |
| 573 | Đ;ĐžĐ'Đ•ĐĐ'Đ•ĐĐ;ĐcĐ'ĐžĐ'ĐĐĐ'Đ• ĐšĐžĐœĐŸĐ•ĐšĐ;ĐĐžĐ“Đž Đ•Đ•ĐšĐ•ĐĐ'Đ' ĐŸĐĐ  Đ'Đ•ĐĐĐĐžĐ' Đ; ĐŸĐ•ĐĐ'Đ'ĐšĐĐžĐ™ ĐĐĐĐ   |     |           |
| 574 | Is the clinical course of non-arteritic ischemic optic neuropathy associated with oxidative damage and the dynamics of the antioxidant response?. <i>International Ophthalmology</i> , 2023, 43, 2935-2945.   | 0.6 | 0         |