

# Molecular mechanism of cataractogenesis: III. Toxic me lipid peroxidation and cataract

Current Eye Research

3, 67-82

DOI: 10.3109/02713688408997188

Citation Report

#	ARTICLE	IF	CITATIONS
1	Lens lipids. <i>Current Eye Research</i> , 1984, 3, 1337-1359.	0.7	97
2	Biochemical Model Reactions for Cataract Research. <i>Ophthalmic Research</i> , 1985, 17, 302-307.	1.0	4
3	Lens Metabolism and Cellular Effects of Aldose Reductase. <i>Diabetic Medicine</i> , 1985, 2, 189-193.	1.2	6
4	Photoeffects on the Eye. <i>Cutaneous and Ocular Toxicology</i> , 1985, 4, 269-299.	0.3	4
5	86-Rb Efflux in normal and cataractous human lenses. <i>Current Eye Research</i> , 1985, 4, 753-758.	0.7	19
6	The effects of $\text{H}_2\text{O}_2$ generated in the medium on lenses in organ culture: Inhibition of damage by chelated iron. <i>Archives of Biochemistry and Biophysics</i> , 1985, 241, 163-172.	1.4	55
7	Inactivation of catalase with 3-amino-1,2,4-triazole: An indirect irreversible mechanism. <i>Biochemical Pharmacology</i> , 1985, 34, 3386-3389.	2.0	22
8	Detoxification of hydrogen peroxide by the rabbit iris-ciliary body. <i>Experimental Eye Research</i> , 1985, 40, 805-811.	1.2	15
9	In vitro damage to rat lens by xanthine-xanthine oxidase: Protection by ascorbate. <i>Experimental Eye Research</i> , 1986, 43, 1067-1076.	1.2	30
10	Lipid peroxidation in cataract of the human. <i>Life Sciences</i> , 1986, 38, 1463-1471.	2.0	151
11	Oxy-Radicals and Related Species: Their Formation, Lifetimes, and Reactions. <i>Annual Review of Physiology</i> , 1986, 48, 657-667.	5.6	885
12	Bendazac and Benzydamine for Treatment of Cataract: Individualized Therapy by the "BLOA Test". <i>Journal of Ocular Pharmacology and Therapeutics</i> , 1986, 2, 251-266.	0.6	6
13	A comparative study on the peroxidase activity within the aqueous humor of the rabbit, guinea-pig and rat. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1986, 85, 585-587.	0.2	2
14	Photodamage to the lens in vitro: Implications of the Haber-Weiss reaction. <i>Journal of Free Radicals in Biology &amp; Medicine</i> , 1986, 2, 57-62.	2.1	14
15	The effects of UV-B irradiation on the corneal endothelium. <i>Current Eye Research</i> , 1987, 6, 1021-1033.	0.7	47
16	Topical Benzyl Alcohol Reduces Cataract Surgery Need: Two Long-Term Double Blind Studies. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 1987, 3, 211-225.	0.6	7
17	Superoxide dismutase activity and reduced glutathione content in cataractous lens of patients with glucose-6-phosphate dehydrogenase deficiency. <i>Ophthalmic Paediatrics and Genetics</i> , 1987, 8, 191-195.	0.4	4
18	Effects of Tannins on the Oxidative Damage of Mouse Ocular Lens I. Using the Oxidative Damage Model Induced by the Xanthine-Xanthine Oxidase System. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 1987, 3, 227-238.	0.6	15

#	ARTICLE	IF	CITATIONS
19	Peroxide-induced effects on lens cation transport following inhibition of glutathione reductase activity in vitro. <i>Experimental Eye Research</i> , 1987, 45, 77-91.	1.2	66
20	Ultrastructural alteration in the rat liver produced by benzyl viologen. <i>Experimental Pathology</i> , 1987, 32, 65-72.	0.5	7
21	Solar radiation and age-related macular degeneration. <i>Survey of Ophthalmology</i> , 1988, 32, 252-269.	1.7	367
22	Lipid peroxidation as a possible cause of cataract. <i>Mechanisms of Ageing and Development</i> , 1988, 44, 69-89.	2.2	109
23	Bovine non-pigmented and pigmented ciliary epithelial cells in culture: Comparison of catalase, superoxide dismutase and glutathione peroxidase activities. <i>Experimental Eye Research</i> , 1988, 46, 919-928.	1.2	18
24	Alteration of lens electrolyte transport parameters following transient oxidative perturbation. <i>Current Eye Research</i> , 1988, 7, 969-979.	0.7	8
25	Significance of alterations in hepatic antioxidant enzymes. Primacy of glutathione peroxidase. <i>Biochemical Journal</i> , 1988, 251, 913-917.	1.7	58
26	Oxidative Stress and Lens Opacity: An Overall Approach to Screening Anticataractous Drugs. <i>Ophthalmic Research</i> , 1988, 20, 27-30.	1.0	12
27	Systemic Human Diseases as Oxidative Risk Factors in Cataractogenesis. <i>Ophthalmic Research</i> , 1988, 20, 308-316.	1.0	40
28	Influence Dietary Riboflavin Deficiency on Lenticular Glutathione Redox Cycle, Lipid Peroxidation, and Free Radical Scavengers in the Rat. <i>Journal of Clinical Biochemistry and Nutrition</i> , 1989, 6, 195-204.	0.6	15
29	Peroxisomal Palmitoyl CoA Oxidase Activity in Ocular Tissues and Cultured Ciliary Epithelial Cells. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 1989, 5, 65-70.	0.6	3
30	Antioxidant vitamins in cataract prevention. <i>European Journal of Nutrition</i> , 1989, 28, 56-75.	4.6	39
31	Antioxidative action of anticataract remedies. <i>Bulletin of Experimental Biology and Medicine</i> , 1989, 108, 1711-1713.	0.3	0
32	The effect of oxidants on biomembranes and cellular metabolism. <i>Molecular and Cellular Biochemistry</i> , 1989, 91, 149-157.	1.4	48
33	Vitamin E Intake and Risk of Cataracts in Humans. <i>Annals of the New York Academy of Sciences</i> , 1989, 570, 372-382.	1.8	151
34	Antioxidant activity of l-carnosine, a natural histidine-containing dipeptide in crystalline lens. <i>Lipids and Lipid Metabolism</i> , 1989, 1004, 363-371.	2.6	72
35	Lipid peroxidation and human cataractogenesis in diabetes and severe myopia. <i>Experimental Eye Research</i> , 1989, 49, 181-187.	1.2	83
36	The association of age-related macular degeneration and lens opacities in the aged.. <i>American Journal of Public Health</i> , 1989, 79, 765-769.	1.5	100

#	ARTICLE	IF	CITATIONS
37	Oxidative Stress and Inherited Cataracts in Mice. <i>Ophthalmic Research</i> , 1989, 21, 414-419.	1.0	9
38	Abnormal Redox Status Without Increased Lipid Peroxidation in Sugar Cataract. <i>Diabetes</i> , 1990, 39, 1347-1352.	0.3	10
39	Lipid soluble antioxidants preserve rabbit corneal cell function. <i>Current Eye Research</i> , 1990, 9, 103-109.	0.7	19
40	Photoinduced effect of riboflavin in ocular tissues. <i>Journal of Environmental Science and Health Part A: Environmental Science and Engineering</i> , 1990, 25, 267-275.	0.1	1
41	The increase in lipid peroxidation in diabetic rat lens can be reversed by oral sorbinil. <i>Metabolism: Clinical and Experimental</i> , 1990, 39, 619-622.	1.5	35
42	Non-selenium glutathione peroxidase without glutathione S-transferase activity from bovine ciliary body. <i>Experimental Eye Research</i> , 1990, 50, 513-520.	1.2	60
43	Systemic human diseases as oxidative risk factors in cataractogenesis. II. Chronic renal failure. <i>Experimental Eye Research</i> , 1990, 51, 631-635.	1.2	23
44	Photoinduction of cataracts in rat lens in vitro. Preventive effect of pyruvate. <i>Experimental Eye Research</i> , 1990, 50, 805-812.	1.2	37
45	Non-tryptophan fluorescence and high molecular weight protein formation in lens crystallins of rats with chronic galactosemia: Prevention by the aldose reductase inhibitor sorbinil. <i>Experimental Eye Research</i> , 1990, 51, 411-418.	1.2	18
46	Enhanced depletion of lens reduced glutathione by adriamycin <sup>®</sup> in riboflavin-deficient rats. <i>Biochemical Pharmacology</i> , 1990, 40, 1111-1115.	2.0	16
47	Desferal-Mn(III) in the therapy of diquat-induced cataract in rabbit. <i>Archives of Biochemistry and Biophysics</i> , 1991, 288, 525-532.	1.4	24
48	A possible role for vitamins C and E in cataract prevention. <i>American Journal of Clinical Nutrition</i> , 1991, 53, 346S-351S.	2.2	103
49	Oxy Radicals in the Eye Tissues of Rabbits After Diquat In Vivo. <i>Free Radical Research Communications</i> , 1991, 13, 621-627.	1.8	9
50	Effect of benzyl viologen on the fatty acid composition of rat liver. <i>Toxicology</i> , 1991, 69, 199-207.	2.0	5
51	Effect of benzyl viologen on the phospholipid fatty acid composition and some properties in hepatic microsomal membrane of rats. <i>Molecular and Cellular Biochemistry</i> , 1991, 108, 125-31.	1.4	4
52	Free Radical Enhancer Xenobiotic is an Inducer of Cataract in Rabbit. <i>Free Radical Research Communications</i> , 1991, 13, 609-620.	1.8	36
53	Hydrogen peroxide in the eye lens: radioisotopic determination. <i>Current Eye Research</i> , 1991, 10, 831-838.	0.7	15
54	Nutrient intake and cataract extraction in women: a prospective study.. <i>BMJ: British Medical Journal</i> , 1992, 305, 335-339.	2.4	265

#	ARTICLE	IF	CITATIONS
55	Peroxide-metabolizing systems of the crystalline lens. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1992, 1138, 11-19.	1.8	24
56	Role of Nutrients in Delaying Cataracts. <i>Annals of the New York Academy of Sciences</i> , 1992, 669, 111-123.	1.8	51
57	Antioxidant and anticataractogenic effects of topical captopril in diquat-induced cataract in rabbits. <i>Free Radical Biology and Medicine</i> , 1992, 12, 251-261.	1.3	35
58	Antioxidant activity of plasma from subjects with and without senile cataract. <i>Documenta Ophthalmologica</i> , 1993, 83, 357-361.	1.0	5
59	Cataract: relationship between nutrition and oxidation.. <i>Journal of the American College of Nutrition</i> , 1993, 12, 138-146.	1.1	105
60	Oxidation and Aging: Impact on Vision. <i>Toxicology and Industrial Health</i> , 1993, 9, 349-371.	0.6	46
61	Glutathione Levels of the Human Crystalline Lens in Aging and Its Antioxidant Effect against the Oxidation of Lens Proteins.. <i>Biological and Pharmaceutical Bulletin</i> , 1993, 16, 870-875.	0.6	64
62	Vitamin undernutrition. <i>Proceedings of the Nutrition Society</i> , 1993, 52, 143-154.	0.4	3
63	[63] Assessment of oxidative stress to eye in animal model for cataract. <i>Methods in Enzymology</i> , 1994, 233, 630-639.	0.4	18
64	Is Age-Related Maculopathy Associated With Cataracts?. <i>JAMA Ophthalmology</i> , 1994, 112, 191.	2.6	85
65	The effect of EGb 761 on retinal lipid peroxidation and glutathione peroxidase level in experimental lens induced uveitis. <i>International Ophthalmology</i> , 1994, 18, 21-24.	0.6	4
66	Lipid peroxide and reactive oxygen species generating systems of the crystalline lens. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 1994, 1225, 326-337.	1.8	83
67	The Nambour study of ocular disease. I. Design, study population and methodology. <i>Ophthalmic Epidemiology</i> , 1995, 2, 137-144.	0.8	5
68	Direct Effect of 12(S)-Hydroxyeicosatetraenoic Acid on Rat Crystalline Lens Is Perturbation of Lens Normalcy.. <i>Biological and Pharmaceutical Bulletin</i> , 1995, 18, 711-718.	0.6	2
69	Î±-lipoic acid prevents buthionine sulfoximine-induced cataract formation in newborn rats. <i>Free Radical Biology and Medicine</i> , 1995, 18, 823-829.	1.3	74
70	The role of the lens epithelium in development of UV cataract. <i>Current Eye Research</i> , 1995, 14, 71-78.	0.7	86
71	Vitamin C reduces cytochalasin D cataractogenesis. <i>Current Eye Research</i> , 1995, 14, 943-949.	0.7	6
72	Oxygen free radicals and human disease. <i>Biochimie</i> , 1995, 77, 147-161.	1.3	305

#	ARTICLE	IF	CITATIONS
73	Epidemiology of risk factors for age-related cataract. Survey of Ophthalmology, 1995, 39, 323-334.	1.7	284
74	Age-related Macular Degeneration after Extracapsular Cataract Extraction with Intraocular Lens Implantation. Ophthalmology, 1996, 103, 1546-1554.	2.5	182
75	Failure to withstand oxidative stress induced by phospholipid hydroperoxides as a possible cause of the lens opacities in systemic diseases and ageing. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1996, 1315, 87-99.	1.8	86
76	Inhibition of Cataracts in Moderately Diabetic Rats by Aminoguanidine. Experimental Eye Research, 1996, 62, 505-510.	1.2	59
77	A Glutathione S-transferases Isozyme (bGST 5.8) Involved in the Metabolism of 4-Hydroxy-2-trans-nonenal is Localized in Bovine Lens Epithelium. Experimental Eye Research, 1996, 63, 329-337.	1.2	19
78	Crosslinking of aminophospholipids in cellular membranes of lens by oxidative stress in vitro. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1285, 21-28.	1.4	23
79	Lipid and lipoprotein oxidation: basic mechanisms and unresolved questions in vivo. Redox Report, 1996, 2, 291-307.	1.4	20
80	Antioxidants in Disease and Oxidative Stress. , 1997, , 262-308.		1
81	Menadione-induced oxidative stress accelerates onset of Emory mouse cataract in vivo. Current Eye Research, 1997, 16, 519-526.	0.7	14
82	In Experimental Diabetes the Decrease in the Eye of Lens Carnitine Levels is an Early Important and Selective Event. Experimental Eye Research, 1997, 64, 195-201.	1.2	22
83	Determinations of some Trace and Heavy Metals in Rat Lenses after Tobacco Smoke Exposure and their Relationships to Lens Injury. Experimental Eye Research, 1997, 65, 417-423.	1.2	28
84	Relationships between stress, protein damage, nutrition, and age-related eye diseases. Molecular Aspects of Medicine, 1997, 18, 307-414.	2.7	10
85	Prejunctional alpha2-adrenoceptors and peroxide-induced potentiation of norepinephrine release from the bovine iris. Neurochemical Research, 1998, 23, 1093-1098.	1.6	8
86	Biochemical changes induced by intravitreally-injected doxorubicin in the iris-ciliary body and lens of the rabbit eye. , 1998, 95, 145-155.		8
87	Synthesis and spin-trapping behaviour of glycosylated nitrones. Journal of the Chemical Society Perkin Transactions II, 1998, , 2299-2308.	0.9	23
88	Corneal aldehyde dehydrogenase and glutathione S-transferase activity after excimer laser keratectomy in guinea pigs. British Journal of Ophthalmology, 1998, 82, 300-302.	2.1	11
89	Cholesterol Oxides Accumulate in Human Cataracts. Experimental Eye Research, 1998, 66, 645-652.	1.2	61
90	Cataractous Changes in Rat Lens Following Cigarette Smoke Exposure Is Prevented by Parenteral Deferoxamine Therapy. JAMA Ophthalmology, 1999, 117, 1368.	2.6	15

#	ARTICLE	IF	CITATIONS
91	A prospective study of carotenoid intake and risk of cataract extraction in US men. <i>American Journal of Clinical Nutrition</i> , 1999, 70, 517-524.	2.2	294
92	Smoking and lens optical density. <i>Ophthalmic and Physiological Optics</i> , 1999, 19, 300-305.	1.0	9
93	Protective Effect of Pirenoxine and U74389F on Induced Lipid Peroxidation in Mammalian Lenses. An in vitro, ex vivo and in vivo study. <i>Experimental Eye Research</i> , 1999, 68, 347-359.	1.2	28
94	Cataract Formation through the Polyol Pathway is associated with Free Radical Production. <i>Experimental Eye Research</i> , 1999, 68, 457-464.	1.2	68
95	Modelling Cortical Cataractogenesis 21: In Diabetic Rat Lenses Taurine Supplementation Partially Reduces Damage Resulting from Osmotic Compensation Leading to Osmolyte Loss and Antioxidant Depletion. <i>Experimental Eye Research</i> , 1999, 69, 279-289.	1.2	36
96	Modelling Cortical Cataractogenesis 22: Is in vitro Reduction of Damage in Model Diabetic Rat Cataract by Taurine Due to Its Antioxidant Activity?. <i>Experimental Eye Research</i> , 1999, 69, 291-300.	1.2	61
97	Lens-Specific Regulation of the Thioredoxin-1 Gene, but Not Thioredoxin-2, upon in Vivo Photochemical Oxidative Stress in the Emory Mouse. <i>Biochemical and Biophysical Research Communications</i> , 1999, 265, 345-349.	1.0	29
98	Superoxide Dismutase, Catalase, Glutathione Peroxidase and Xanthine Oxidase in Diabetic Rat Lenses. <i>Ophthalmic Research</i> , 1999, 31, 346-350.	1.0	20
99	PRK and LASIK—Their Potential Risk of Cataractogenesis: Lipid Peroxidation Changes in the Aqueous Humor and Crystalline Lens of Rabbits. <i>Cornea</i> , 2000, 19, 75-79.	0.9	13
100	Nutritional Influences on Risk for Cataract. <i>International Ophthalmology Clinics</i> , 2000, 40, 17-49.	0.3	13
101	Antioxidants and Cataract Formation: A Summary Review. <i>International Ophthalmology Clinics</i> , 2000, 40, 71-81.	0.3	34
102	Anti-inflammatory, antioxidant and antimicrobial activity of Ophthacare brand, an herbal eye drops. <i>Phytomedicine</i> , 2000, 7, 123-127.	2.3	12
103	Growth factor receptor gene and protein expressions in the human lens. <i>Mechanisms of Ageing and Development</i> , 2000, 113, 205-218.	2.2	21
104	Colocalization of Aldehyde Dehydrogenases and Fe/NADPH-Induced Lipid Peroxidation in Tissue Sections of Rat Retina. <i>Ophthalmic Research</i> , 2000, 32, 61-68.	1.0	13
105	Role of Catalase in Pre- and Postjunctional Responses of Mammalian Irides to Hydrogen Peroxide. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2000, 16, 429-438.	0.6	4
106	Age-Related Nuclear Cataract: A Lens Transport Problem. <i>Ophthalmic Research</i> , 2000, 32, 185-194.	1.0	166
107	Imidazole-Containing Peptidomimetic NACA as a Potent Drug for the Medicinal Treatment of Age-Related Cataract in Humans. <i>Rejuvenation Research</i> , 2000, 3, 43-62.	0.2	30
108	Carotenoids in the Retina and Lens: Possible Acute and Chronic Effects on Human Visual Performance. <i>Archives of Biochemistry and Biophysics</i> , 2001, 385, 41-46.	1.4	69

#	ARTICLE	IF	CITATIONS
109	N-Acetylcarnosine, a natural histidine-containing dipeptide, as a potent ophthalmic drug in treatment of human cataracts. <i>Peptides</i> , 2001, 22, 979-994.	1.2	101
110	Plasma antioxidant vitamins and carotenoids and age-related cataract. <i>Ophthalmology</i> , 2001, 108, 1992-1998.	2.5	134
111	Gene expression analysis of an H <sub>2</sub> O <sub>2</sub> -resistant lens epithelial cell line. <i>Free Radical Biology and Medicine</i> , 2001, 31, 90-97.	1.3	36
112	2001 assessment of nutritional influences on risk for cataract. <i>Nutrition</i> , 2001, 17, 845-857.	1.1	46
113	Lipid peroxidation in porcine irises: Dependence on pigmentation. <i>Current Eye Research</i> , 2001, 22, 229-234.	0.7	5
116	Smoking Cessation and Risk of Cataract Extraction among US Women and Men. <i>American Journal of Epidemiology</i> , 2002, 155, 72-79.	1.6	30
117	The 2001 Assessment of Nutritional Influences on Risk of Cataract. , 2002, 6, 163-191.		2
118	Thioredoxin Genes in Lens: Regulation by Oxidative Stress. <i>Methods in Enzymology</i> , 2002, 347, 421-435.	0.4	15
119	Mechanisms of disease: cataracts. <i>Ophthalmology Clinics of North America</i> , 2002, 15, 49-60.	1.8	12
120	Efficacy of N-Acetylcarnosine in the Treatment of Cataracts. <i>Drugs in R and D</i> , 2002, 3, 87-103.	1.1	72
121	Effect of ketoacids on H <sub>2</sub> O <sub>2</sub> induced cataract. <i>Indian Journal of Clinical Biochemistry</i> , 2003, 18, 91-95.	0.9	7
122	Some histologic and biochemical evidence for mitigation of cyanide-induced tissue lesions by antioxidant vitamin administration in rabbits. <i>Food and Chemical Toxicology</i> , 2003, 41, 463-469.	1.8	13
123	Induction of cortical cataracts in cultured mouse lenses with H-89, an inhibitor of protein kinase A. <i>Current Eye Research</i> , 2003, 27, 269-278.	0.7	11
124	Possibility of Clinical Application of Vitamin E to Cataract Prevention. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2004, 35, 35-45.	0.6	7
125	Age-Related Features of Cataractogenesis in Salmon Fry. 2. Biochemical Features of Lens during Cataractogenesis. <i>Russian Journal of Developmental Biology</i> , 2004, 35, 49-56.	0.1	3
126	ESR study of spin-trapping with two glycosylated analogues of PBN able to target cell membrane lectins. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 927.	1.5	13
127	Lutein and Zeaxanthin and Their Potential Roles in Disease Prevention. <i>Journal of the American College of Nutrition</i> , 2004, 23, 567S-587S.	1.1	235
128	Cluster analysis of genes with significant change in expression in cells conditioned to survive TBOOH. <i>Experimental Eye Research</i> , 2004, 78, 301-308.	1.2	8



#	ARTICLE	IF	CITATIONS
129	Nutritional Supplementation to Prevent Cataract Formation. , 2005, 38, 103-119.		52
130	Analysis of Lipid Peroxidation and??Electron Microscopic Survey of??Maturation Stages during Human Cataractogenesis. <i>Drugs in R and D</i> , 2005, 6, 345-369.	1.1	12
131	Oxidative modification of rat eye lens proteins by peroxy radicals in vitro: Protection by the chain-breaking antioxidants stobadine and Trolox. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2005, 1741, 183-190.	1.8	29
132	Alpha-tocopherol in plasma, red blood cells and lenses with and without cataract. <i>American Journal of Ophthalmology</i> , 2005, 139, 266-270.	1.7	14
133	Identification of 3-Hydroxykynurenine Bound to Proteins in the Human Lens. A Possible Role in Age-Related Nuclear Cataract. <i>Biochemistry</i> , 2006, 45, 1950-1960.	1.2	59
134	Antioxidant Properties of Lipoic Acid and Its Therapeutic Effects in Prevention of Diabetes Complications and Cataracts. <i>Annals of the New York Academy of Sciences</i> , 1994, 738, 257-264.	1.8	47
135	Oxidation-induced changes in human lens epithelial cells. <i>Free Radical Biology and Medicine</i> , 2006, 41, 1425-1432.	1.3	57
136	Hydroxyl Radical Scavenging Activity of a New Ophthalmic Viscosurgical Device. <i>Current Eye Research</i> , 2007, 32, 105-111.	0.7	11
137	Biological Diversity, Dietary Diversity, and Eye Health in Developing Country Populations: Establishing the Evidence-base. <i>EcoHealth</i> , 2008, 5, 244-256.	0.9	19
138	Environmental tobacco smoke exposure and eye disease. <i>British Journal of Ophthalmology</i> , 2008, 92, 1304-1310.	2.1	85
139	Ocular Drug Metabolism of the Bioactivating Antioxidant N-acetylcarnosine for Vision in Ophthalmic Prodrug and Codrug Design and Delivery. <i>Drug Development and Industrial Pharmacy</i> , 2008, 34, 1071-1089.	0.9	20
140	Potential of Intraocular Absorption and Drug Metabolism of N-Acetylcarnosine Lubricant Eye Drops: Drug Interaction with Sight Threatening Lipid Peroxides in the Treatment for Age-Related Eye Diseases. <i>Drug Metabolism and Drug Interactions</i> , 2009, 24, 275-323.	0.3	1
141	Associations between Nutrition and Cataract. <i>Nutrition Reviews</i> , 2009, 47, 225-234.	2.6	50
142	Accumulation of lipid peroxidation products in human cataracts. <i>Acta Ophthalmologica</i> , 1989, 67, 281-287.	0.6	43
143	Modelling cortical cataractogenesis XVIII. In vitro diabetic cataract reduction by venoruton. <i>Acta Ophthalmologica</i> , 1996, 74, 372-378.	0.4	15
144	Structural evidence for membrane lipid changes in human cataract. <i>Acta Ophthalmologica</i> , 1996, 74, 573-577.	0.4	2
145	Lutein prevents cataract development and progression in diabetic rats. <i>Graefe's Archive for Clinical and Experimental Ophthalmology</i> , 2009, 247, 115-120.	1.0	60
146	Effect of vitamin C and E activity on surgically removed cataractous human lens epithelium cells. <i>Indian Journal of Clinical Biochemistry</i> , 2009, 24, 375-380.	0.9	6

#	ARTICLE	IF	CITATIONS
147	Oxidative stress and antioxidant status in older adults with early cataract. <i>Eye</i> , 2009, 23, 1464-1468.	1.1	37
148	Telomere attrition in lens epithelial cells - a target for N-acetylcarnosine therapy. <i>Frontiers in Bioscience - Landmark</i> , 2010, 15, 934.	3.0	24
149	Lipids and the ocular lens. <i>Journal of Lipid Research</i> , 2010, 51, 2473-2488.	2.0	128
150	Telomere-dependent senescent phenotype of lens epithelial cells as a biological marker of aging and cataractogenesis: the role of oxidative stress intensity and specific mechanism of phospholipid hydroperoxide toxicity in lens and aqueous. <i>Fundamental and Clinical Pharmacology</i> , 2011, 25, 139-162.	1.0	34
151	In vivo inhibition of l-buthionine-(S,R)-sulfoximine-induced cataracts by a novel antioxidant, N-acetylcysteine amide. <i>Free Radical Biology and Medicine</i> , 2011, 50, 722-729.	1.3	39
153	Mitochondria induce oxidative stress, generation of reactive oxygen species and redox state unbalance of the eye lens leading to human cataract formation: disruption of redox lens organization by phospholipid hydroperoxides as a common basis for cataract disease. <i>Cell Biochemistry and Function</i> , 2011, 29, 183-206.	1.4	68
154	Glutathione-dependent formaldehyde dehydrogenase (ADH3) and low km mitochondrial aldehyde dehydrogenase (ALDH2). New evidence for differential expression in the rat retina in response to oxidative stress. <i>Free Radical Research</i> , 2012, 46, 77-84.	1.5	11
155	Protective effects of ebselen on sodium-selenite-induced experimental cataract in rats. <i>Journal of Cataract and Refractive Surgery</i> , 2012, 38, 2160-2166.	0.7	10
156	Expression and Role of p53 in the Retina. , 2012, 53, 1362.		38
157	Regular, high, and moderate intake of vegetables rich in antioxidants may reduce cataract risk in Central African type 2 diabetics. <i>International Journal of General Medicine</i> , 2012, 5, 489.	0.8	9
158	Biomarkers and special features of oxidative stress in the anterior segment of the eye linked to lens cataract and the trabecular meshwork injury in primary open-angle glaucoma: challenges of dual combination therapy with N-acetylcarnosine lubricant eye drops and oral formulation of nonhydrolyzed carnosine. <i>Fundamental and Clinical Pharmacology</i> , 2012, 26, 86-117.	1.0	50
159	Phytochemicals in ocular health: Therapeutic potential and delivery challenges. <i>World Journal of Pharmacology</i> , 2013, 2, 18.	1.3	8
160	Biomarkers of Oxidative Stress and Cataract. Novel Drug Delivery Therapeutic Strategies Targeting Telomere Reduction and the Expression of Telomerase Activity in the Lens Epithelial Cells with N-Acetylcarnosine Lubricant Eye Drops: Anti-Cataract which Helps to Prevent and Treat Cataracts in the Eyes of Dogs and other Animals. <i>Current Drug Delivery</i> , 2014, 11, 24-61.	0.8	17
161	Acetyl-L-Carnitine as a Nutraceutical Agent in Preventing Selenite-Induced Cataract. , 2014, , 493-504.		0
162	Impact of Corneal Endothelial Dysfunctions on Intraocular Oxygen Levels in Human Eyes. , 2015, 56, 6483.		12
163	Antioxidant action of 3-mercapto-5-H-1,2,4-triazino[5,6-b]indole-5-acetic acid, an efficient aldose reductase inhibitor, in a 1,1-diphenyl-2-picrylhydrazyl assay and in the cellular system of isolated erythrocytes exposed to tert-butyl hydroperoxide. <i>Redox Report</i> , 2015, 20, 282-288.	1.4	14
164	Nox4 Plays a Role in TGF- $\beta$ -Dependent Lens Epithelial to Mesenchymal Transition. , 2016, 57, 3665.		26
165	Anticataractogenic Activity of Luteolin. <i>Chemistry and Biodiversity</i> , 2016, 13, 343-344.	1.0	2

#	ARTICLE	IF	CITATIONS
166	Pharmacology of Ocular Therapeutics. , 2016, , .		6
167	Herbal Drugs for Ophthalmic Use. , 2016, , 517-535.		1
168	Insights into neurosensory toxicity of mercury in fish eyes stemming from tissue burdens, oxidative stress and synaptic transmission profiles. Marine Environmental Research, 2016, 113, 70-79.	1.1	13
169	Incidence of Cataract Surgery after Vitrectomy for Vitreous Opacities. Ophthalmology Retina, 2017, 1, 154-157.	1.2	23
170	Whales, lifespan, phospholipids, and cataracts. Journal of Lipid Research, 2017, 58, 2289-2298.	2.0	29
171	Age-related cataracts: Role of unfolded protein response, Ca <sup>2+</sup> mobilization, epigenetic DNA modifications, and loss of Nrf2/Keap1 dependent cytoprotection. Progress in Retinal and Eye Research, 2017, 60, 1-19.	7.3	100
172	Prevention and reversal of selenite-induced cataracts by N-acetylcysteine amide in Wistar rats. BMC Ophthalmology, 2017, 17, 54.	0.6	27
173	S-Allylmercapro-N-Acetylcysteine Attenuates the Oxidation-Induced Lens Opacification and Retinal Pigment Epithelial Cell Death In Vitro. Antioxidants, 2019, 8, 25.	2.2	5
174	Health Benefits of Polyphenols and Carotenoids in Age-Related Eye Diseases. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-22.	1.9	140
175	Neuroprotective Effect of Brazilian Green Propolis on Retinal Ganglion Cells in Ischemic Mouse Retina. Current Eye Research, 2020, 45, 955-964.	0.7	11
176	The Preventive Effects of Asparagus officinalis Extract on Sodium Selenite-Induced Cataractogenesis in Experimental Animal Models. Evidence-based Complementary and Alternative Medicine, 2020, 2020, 1-8.	0.5	1
177	Anticataract effects of S. cumini and A. marmelos on goat lenses in an experimental diabetic cataract model. Journal of Ayurveda and Integrative Medicine, 2020, 11, 421-425.	0.9	5
178	Lipid conformational order and the etiology of cataract and dry eye. Journal of Lipid Research, 2021, 62, 100039.	2.0	32
179	Effects of Binahong (Anredera cordifolia (Tenore) Steenis) Extracts on the Levels of Malondialdehyde (MDA) in Cataract Goat Lenses. Scientific World Journal, The, 2021, 2021, 1-6.	0.8	4
180	Association of Alpha-Crystallin with Fiber Cell Plasma Membrane of the Eye Lens Accompanied by Light Scattering and Cataract Formation. Membranes, 2021, 11, 447.	1.4	15
181	Perspective on Damage to Angle Structures. , 1987, , 35-53.		1
182	Free Radicals and Antioxidants in the Pathogenesis of Eye Diseases. Advances in Experimental Medicine and Biology, 1990, 264, 513-527.	0.8	21
183	Singlet Oxygen-Induced Damage to Rat Lenses in Vitro: Protection by Anisylidithiolthione. Advances in Experimental Medicine and Biology, 1990, 264, 529-532.	0.8	4

#	ARTICLE	IF	CITATIONS
184	Lens. , 1991, , 201-290.		7
185	Antioxidant Status and Risk for Cataract. , 2005, , 463-503.		4
186	Effect of photooxidation on the eye lens and role of nutrients in delaying cataract. , 1992, 62, 266-279.		7
187	Induced Cataracts, Lens, Rat. Monographs on Pathology of Laboratory Animals, 1991, , 63-73.	0.0	2
188	The Eye and Ear. , 1993, , 441-529.		43
189	Relationships between Natural Antioxidants and Cataract Formation. , 1994, , 515-533.		9
190	Lipoic Acid. , 2001, , .		1
192	N-acetylcysteine amide protects against dexamethasone-induced cataract related changes in cultured rat lenses. Advances in Biological Chemistry, 2014, 04, 26-34.	0.2	9
193	Reported evidence of vitamin E protection against cataract and glaucoma. Free Radical Biology and Medicine, 2021, 177, 100-119.	1.3	19
194	Nutritional Influences on Risk for Cataract. , 2001, , .		0
196	Association of Oxidative Stress with Cataractogenesis. Oxidative Stress and Disease, 2003, , .	0.3	0
197	Die Beteiligung oxidativer Prozesse bei der Kataraktentstehung. , 1987, , 125-138.		0
199	Comparison of the impact of epigallocatechin gallate and ellagic acid in an experimental cataract model induced by sodium selenite. International Journal of Ophthalmology, 2017, 10, 499-506.	0.5	4
200	Oxygen free radicals and corneal endothelium. Transactions of the American Ophthalmological Society, 1990, 88, 463-511.	1.4	5
201	Retinal photic injury in normal and scorbutic monkeys. Transactions of the American Ophthalmological Society, 1987, 85, 498-556.	1.4	17
202	Evaluation of lenticular antioxidant and redox system components in the lenses of acetyl-L-carnitine treatment in BSO-induced glutathione deprivation. Molecular Vision, 2009, 15, 1485-91.	1.1	9
203	Quantitative assessment of DNA damage directly in lens epithelial cells from senile cataract patients. Molecular Vision, 2011, 17, 1-6.	1.1	25
204	Effect of high sugar levels on miRNA expression. Studies with galactosemic mice lenses. Molecular Vision, 2012, 18, 1609-18.	1.1	13

#	ARTICLE	IF	CITATIONS
205	Putative free radical-scavenging activity of an extract of <i>Cineraria maritima</i> in preventing selenite-induced cataractogenesis in Wistar rat pups. <i>Molecular Vision</i> , 2013, 19, 2551-60.	1.1	7
206	The protective effect of <i>phaseolus vulgaris</i> on cataract in type 2 diabetes: a profitable hypothesis. <i>Medical Hypothesis, Discovery, and Innovation in Ophthalmology</i> , 2013, 2, 105-8.	0.4	3
209	Temporal relationship between lens protein oxidation and cataract development in streptozotocin-induced diabetic rats. <i>Physiological Research</i> , 2005, , 49-56.	0.4	27
210	UV Rays, the Prooxidant/Antioxidant Imbalance in the Cornea and Oxidative Eye Damage. <i>Physiological Research</i> , 2004, , 1-10.	0.4	92
211	Identification and quantification of ionising radiation-induced oxysterol formation in membranes of lens fibre cells. <i>Advances in Redox Research</i> , 2023, 7, 100057.	0.9	2
213	A comprehensive study of therapeutic entities for treatment of cataract. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0