Kai Kaarniranta

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

259 papers	20,628 citations	62 h-index	139 g-index
295 ext. papers	23,680 ext. citations	5.6 avg, IF	7.02 L-index

#	Paper	IF	Citations
259	Hormetic Heat Shock Enhances Autophagy through HSF1 in Retinal Pigment Epithelium Cells. *Cells*, **2022**, 11, 1778	7.9	0
258	Shortening of Saccades as a Possible Easy-to-Use Biomarker to Detect Risk of Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2022**, 1-10	4.3	
257	The role of vision-related problems in fatal road accidents in Finland. *Acta Ophthalmologica*, **2021**, 99, 427-430	3.7	
256	Inhibition of prolyl oligopeptidase: A promising pathway to prevent the progression of age-related macular degeneration. *Biomedicine and Pharmacotherapy*, **2021**, 146, 112501	7.5	
255	Epithelial-mesenchymal transition-related serum markers ET-1, IL-8 and TGF-β2 are elevated in a Finnish wet age-related macular degeneration cohort. *Acta Ophthalmologica*, **2021**,	3.7	2
254	Therapeutic potential of PGC-1α in age-related macular degeneration (AMD) - the involvement of mitochondrial quality control, autophagy, and antioxidant response. *Expert Opinion on Therapeutic Targets*, **2021**, 25, 773-785	6.4	2
253	Ultrasound and Microbubbles for the Treatment of Ocular Diseases: From Preclinical Research towards Clinical Application. *Pharmaceutics*, **2021**, 13,	6.4	2
252	The most successful year in the history of Acta Ophthalmologica. *Acta Ophthalmologica*, **2021**, 99, 117	3.7	
251	MicroRNAs in the regulation of autophagy and their possible use in age-related macular degeneration therapy. *Ageing Research Reviews*, **2021**, 67, 101260	12	9
250	TAS-116, a Well-Tolerated Hsp90 Inhibitor, Prevents the Activation of the NLRP3 Inflammasome in Human Retinal Pigment Epithelial Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
249	Differential Expression of Inflammasome-Related Genes in Induced Pluripotent Stem-Cell-Derived Retinal Pigment Epithelial Cells with or without History of Age-Related Macular Degeneration. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
248	Dysregulated Tear Film Proteins in Macular Edema Due to the Neovascular Age-Related Macular Degeneration Are Involved in the Regulation of Protein Clearance, Inflammation, and Neovascularization. *Journal of Clinical Medicine*, **2021**, 10,	5.1	3
247	Association of the MYOC p.(Gln368Ter) Variant With Glaucoma in a Finnish Population. *JAMA Ophthalmology*, **2021**, 139, 762-768	3.9	0
246	Epithelial-Mesenchymal Transition and Senescence in the Retinal Pigment Epithelium of Double Knock-Out Mice. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
245	Potential of Telomerase in Age-Related Macular Degeneration-Involvement of Senescence, DNA Damage Response and Autophagy and a Key Role of PGC-1α *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
244	Antimycin A-induced mitochondrial dysfunction regulates inflammasome signaling in human retinal pigment epithelial cells. *Experimental Eye Research*, **2021**, 209, 108687	3.7	2
243	Potential of Long Non-Coding RNAs in Age-Related Macular Degeneration. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2

242	Insulin/IGF-1 signaling promotes immunosuppression via the STAT3 pathway: impact on the aging process and age-related diseases. *Inflammation Research*, **2021**, 70, 1043-1061	7.2	4
241	Hypoxia/ischemia impairs CD33 (Siglec-3)/TREM2 signaling: Potential role in Alzheimer's pathogenesis. *Neurochemistry International*, **2021**, 150, 105186	4.4	2
240	Effects of Resvega on Inflammasome Activation in Conjunction with Dysfunctional Intracellular Clearance in Retinal Pigment Epithelial (RPE) Cells. *Antioxidants*, **2021**, 10,	7.1	3
239	Pinosylvin Extract Retinari Sustains Electrophysiological Function, Prevents Thinning of Retina, and Enhances Cellular Response to Oxidative Stress in NFE2L2 Knockout Mice.. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 8028427	6.7	0
238	Trehalose for Ocular Surface Health. *Biomolecules*, **2020**, 10,	5.9	5
237	Mitophagy in the Retinal Pigment Epithelium of Dry Age-Related Macular Degeneration Investigated in the / Mouse Model. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	16
236	Only IL-1 release is inflammasome-dependent upon ultraviolet B irradiation although IL-18 is also secreted. *FASEB Journal*, **2020**, 34, 6437-6448	0.9	6
235	Induction of Heat Shock Protein 70 in Mouse RPE as an In Vivo Model of Transpupillary Thermal Stimulation. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
234	Resvega Alleviates Hydroquinone-Induced Oxidative Stress in ARPE-19 Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
233	Resveratrol as Inducer of Autophagy, Pro-Survival, and Anti-Inflammatory Stimuli in Cultured Human RPE Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	22
232	Correlation between the rate of intravitreal injections, use of aflibercept as a second-line treatment and visual impairment for wet AMD in Finland. *Acta Ophthalmologica*, **2020**, 98, 472	3.7	2
231	Drug Flux Across RPE Cell Models: The Hunt for An Appropriate Outer Blood-Retinal Barrier Model for Use in Early Drug Discovery. *Pharmaceutics*, **2020**, 12,	6.4	3
230	Potential Role of Myeloid-Derived Suppressor Cells (MDSCs) in Age-Related Macular Degeneration (AMD). *Frontiers in Immunology*, **2020**, 11, 384	8.4	2
229	ER stress activates immunosuppressive network: implications for aging and Alzheimer's disease. *Journal of Molecular Medicine*, **2020**, 98, 633-650	5.5	32
228	Comparison of Two Different Treat-and-Extend Protocols with Aflibercept in Wet Age-Related Macular Degeneration: Two-Year Results. *Advances in Therapy*, **2020**, 37, 2256-2266	4.1	2
227	Retinal Pigment Epithelium in Age-Related Macular Degeneration **2020**, 161-171		
226	Immunological biomarkers of the vitreous responsible for proliferative alteration in the different forms of retinal detachment. *BMC Ophthalmology*, **2020**, 20, 491	2.3	3
225	Disease aetiology-based design of multifunctional microemulsion eye drops for moderate or severe dry eye: a randomized, quadruple-masked and active-controlled clinical trial. *Acta Ophthalmologica*, **2020**, 98, 244-254	3.7	6

224	Electrical synapses interconnecting axons revealed in the optic nerve head - a novel model of gap junctions' involvement in optic nerve function. *Acta Ophthalmologica*, **2020**, 98, 408-417	3.7	6
223	Exosomal vesicles enhance immunosuppression in chronic inflammation: Impact in cellular senescence and the aging process. *Cellular Signalling*, **2020**, 75, 109771	4.9	11
222	Zinc and Autophagy in Age-Related Macular Degeneration. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	7
221	The Aging Stress Response and Its Implication for AMD Pathogenesis. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	8
220	Autophagy Genes for Wet Age-Related Macular Degeneration in a Finnish Case-Control Study. *Genes*, **2020**, 11,	4.2	4
219	In vitro stem cell modelling demonstrates a proof-of-concept for excess functional mutant TIMP3 as the cause of Sorsby fundus dystrophy. *Journal of Pathology*, **2020**, 252, 138-150	9.4	5
218	DICER1 in the Pathogenesis of Age-related Macular Degeneration (AMD) - RNA Accumulation versus miRNA Dysregulation **2020**, 11, 851-862		5
217	Mechanisms of mitochondrial dysfunction and their impact on age-related macular degeneration. *Progress in Retinal and Eye Research*, **2020**, 79, 100858	20.5	87
216	UV-B-Induced Inflammasome Activation Can Be Prevented by Cis-Urocanic Acid in Human Corneal Epithelial Cells **2020**, 61, 7		9
215	Interplay between Autophagy and the Ubiquitin-Proteasome System and Its Role in the Pathogenesis of Age-Related Macular Degeneration. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	49
214	The first ophthalmic Choosing Wisely recommendations in Finland for glaucoma and wet age-related macular degeneration. *Acta Ophthalmologica*, **2019**, 97, e808-e810	3.7	6
213	SQSTM1/p62 regulates the production of IL-8 and MCP-1 in IL-1β stimulated human retinal pigment epithelial cells. *Cytokine*, **2019**, 116, 70-77	4	11
212	AMPK activation inhibits the functions of myeloid-derived suppressor cells (MDSC): impact on cancer and aging. *Journal of Molecular Medicine*, **2019**, 97, 1049-1064	5.5	43
211	Role of Mitochondrial DNA Damage in ROS-Mediated Pathogenesis of Age-Related Macular Degeneration (AMD). *International Journal of Molecular Sciences*, **2019**, 20,	6.3	71
210	Changes in ocular signs and symptoms in patients switching from bimatoprost-timolol to tafluprost-timolol eye drops: an open-label phase IV study. *BMJ Open*, **2019**, 9, e024129	3	16
209	Antimycin A-Induced Mitochondrial Damage Causes Human RPE Cell Death despite Activation of Autophagy. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 1583656	6.7	23
208	Dietary Polyphenols in Age-Related Macular Degeneration: Protection against Oxidative Stress and Beyond. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 9682318	6.7	40
207	Immunosenescence: the potential role of myeloid-derived suppressor cells (MDSC) in age-related immune deficiency. *Cellular and Molecular Life Sciences*, **2019**, 76, 1901-1918	10.3	72

206	Human Embryonic Stem Cell-Derived Retinal Pigment Epithelium-Role in Dead Cell Clearance and Inflammation. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	11
205	Nuclear factor E2-related factor 2 deficiency impairs atherosclerotic lesion development but promotes features of plaque instability in hypercholesterolaemic mice. *Cardiovascular Research*, **2019**, 115, 243-254	9.9	13
204	Fatty acids and oxidized lipoproteins contribute to autophagy and innate immunity responses upon the degeneration of retinal pigment epithelium and development of age-related macular degeneration. *Biochimie*, **2019**, 159, 49-54	4.6	19
203	Compromised Barrier Function in Human Induced Pluripotent Stem-Cell-Derived Retinal Pigment Epithelial Cells from Type 2 Diabetic Patients. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	19
202	Expression of VEGFA-regulating miRNAs and mortality in wet AMD. *Journal of Cellular and Molecular Medicine*, **2019**, 23, 8464-8471	5.6	21
201	Can vitamin D protect against age-related macular degeneration or slow its progression?. *Acta Biochimica Polonica*, **2019**, 66, 147-158	2	6
200	Real Life Experience of Dexamethasone Implant in Refractory Diabetic Macular Oedema. *Clinical Ophthalmology*, **2019**, 13, 2583-2590	2.5	1
199	The Regulation of NFE2L2 (NRF2) Signalling and Epithelial-to-Mesenchymal Transition in Age-Related Macular Degeneration Pathology. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	25
198	Survival and functionality of xeno-free human embryonic stem cell-derived retinal pigment epithelial cells on polyester substrate after transplantation in rabbits. *Acta Ophthalmologica*, **2019**, 97, e688-e699	3.7	9
197	Soluble and membrane-bound adenylate kinase and nucleotidases augment ATP-mediated inflammation in diabetic retinopathy eyes with vitreous hemorrhage. *Journal of Molecular Medicine*, **2019**, 97, 341-354	5.5	12
196	Loss of NRF-2 and PGC-1 genes leads to retinal pigment epithelium damage resembling dry age-related macular degeneration. *Redox Biology*, **2019**, 20, 1-12	11.3	73
195	Tear film proteome in age-related macular degeneration. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2018**, 256, 1127-1139	3.8	22
194	Mechanistical retinal drug targets and challenges. *Advanced Drug Delivery Reviews*, **2018**, 126, 177-184	18.5	9
193	Hsp90 inhibition as a means to inhibit activation of the NLRP3 inflammasome. *Scientific Reports*, **2018**, 8, 6720	4.9	35
192	Myeloid-derived suppressor cells (MDSC): an important partner in cellular/tissue senescence. *Biogerontology*, **2018**, 19, 325-339	4.5	29
191	Wound healing of human embryonic stem cell-derived retinal pigment epithelial cells is affected by maturation stage. *BioMedical Engineering OnLine*, **2018**, 17, 102	4.1	1
190	Oxidative Stress is the Principal Contributor to Inflammasome Activation in Retinal Pigment Epithelium Cells with Defunct Proteasomes and Autophagy. *Cellular Physiology and Biochemistry*, **2018**, 49, 359-367	3.9	31
189	PGC-1 Protects RPE Cells of the Aging Retina against Oxidative Stress-Induced Degeneration through the Regulation of Senescence and Mitochondrial Quality Control. The Significance for AMD Pathogenesis. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	58

188	Phytochemicals inhibit the immunosuppressive functions of myeloid-derived suppressor cells (MDSC): Impact on cancer and age-related chronic inflammatory disorders. *International Immunopharmacology*, **2018**, 61, 231-240	5.8	20
187	Outcome of anti-vascular endothelial growth factor therapy for neovascular age-related macular degeneration in real-life setting. *British Journal of Ophthalmology*, **2018**, 102, 959-965	5.5	23
186	Increased intraocular pressure alters the cellular distribution of HuR protein in retinal ganglion cells - A possible sign of endogenous neuroprotection failure. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 296-306	6.9	6
185	The role of myeloid-derived suppressor cells (MDSC) in the inflammaging process. *Ageing Research Reviews*, **2018**, 48, 1-10	12	52
184	Mitochondrial quality control in AMD: does mitophagy play a pivotal role?. *Cellular and Molecular Life Sciences*, **2018**, 75, 2991-3008	10.3	46
183	The potential importance of myeloid-derived suppressor cells (MDSCs) in the pathogenesis of Alzheimer's disease. *Cellular and Molecular Life Sciences*, **2018**, 75, 3099-3120	10.3	14
182	Autophagy Stimulus Promotes Early HuR Protein Activation and p62/SQSTM1 Protein Synthesis in ARPE-19 Cells by Triggering Erk1/2, p38, and JNK Kinase Pathways. *Oxidative Medicine and Cellular Longevity*, **2018**, 2018, 4956080	6.7	17
181	Two dietary polyphenols, fisetin and luteolin, reduce inflammation but augment DNA damage-induced toxicity in human RPE cells. *Journal of Nutritional Biochemistry*, **2017**, 42, 37-42	6.3	28
180	NLRP3 inflammasome activation is associated with proliferative diabetic retinopathy. *Acta Ophthalmologica*, **2017**, 95, 803-808	3.7	75
179	Oxidized low-density lipoprotein, lipid and calcium aggregates reveal oxidative stress and inflammation in the conjunctiva of glaucoma patients. *Acta Ophthalmologica*, **2017**, 95, 378-385	3.7	4
178	Autophagy regulates death of retinal pigment epithelium cells in age-related macular degeneration. *Cell Biology and Toxicology*, **2017**, 33, 113-128	7.4	96
177	Hypoxia and inflammation in the release of VEGF and interleukins from human retinal pigment epithelial cells. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2017**, 255, 1757-1762	3.8	40
176	Regulation of longevity by FGF21: Interaction between energy metabolism and stress responses. *Ageing Research Reviews*, **2017**, 37, 79-93	12	53
175	Cytoarchitecture of epithelial inflammatory infiltration indicates the aetiology of infectious keratitis. *Acta Ophthalmologica*, **2017**, 95, 405-413	3.7	10
174	DNA damage response and autophagy in the degeneration of retinal pigment epithelial cells-Implications for age-related macular degeneration (AMD). *Ageing Research Reviews*, **2017**, 36, 64-77	12	40
173	Hypoxia/ischemia activate processing of Amyloid Precursor Protein: impact of vascular dysfunction in the pathogenesis of Alzheimer's disease. *Journal of Neurochemistry*, **2017**, 140, 536-549	6	100
172	Cellular Senescence in Age-Related Macular Degeneration: Can Autophagy and DNA Damage Response Play a Role?. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 5293258	6.7	49
171	Visual processing in patients with age-related macular degeneration performing a face detection test. *Clinical Ophthalmology*, **2017**, 11, 1245-1252	2.5	2

170	Integrated stress response stimulates FGF21 expression: Systemic enhancer of longevity. *Cellular Signalling*, **2017**, 40, 10-21	4.9	49
169	Topical cis-urocanic acid prevents ocular surface irritation in both IgE -independent and -mediated rat model. *Graefe's Archive for Clinical and Experimental Ophthalmology*, **2017**, 255, 2357-2362	3.8	6
168	The Finnish national guideline for diagnosis, treatment and follow-up of patients with wet age-related macular degeneration. *Acta Ophthalmologica*, **2017**, 95, 1-9	3.7	16
167	FGF21 activates AMPK signaling: impact on metabolic regulation and the aging process. *Journal of Molecular Medicine*, **2017**, 95, 123-131	5.5	53
166	Autophagy Regulates Proteasome Inhibitor-Induced Pigmentation in Human Embryonic Stem Cell-Derived Retinal Pigment Epithelial Cells. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	9
165	Depletion of the Third Complement Component Ameliorates Age-Dependent Oxidative Stress and Positively Modulates Autophagic Activity in Aged Retinas in a Mouse Model. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 5306790	6.7	15
164	Resveratrol and Regulation of Autophagy. *Highlights of Ophthalmology*, **2017**, 45, 9-10	0	
163	Lysosomes: Regulators of autophagy in the retinal pigmented epithelium. *Experimental Eye Research*, **2016**, 144, 46-53	3.7	53
162	Defects in retinal pigment epithelial cell proteolysis and the pathology associated with age-related macular degeneration. *Progress in Retinal and Eye Research*, **2016**, 51, 69-89	20.5	130
161	Role of the Cell Cycle Re-Initiation in DNA Damage Response of Post-Mitotic Cells and Its Implication in the Pathogenesis of Neurodegenerative Diseases. *Rejuvenation Research*, **2016**, 19, 131-9	2.6	17
160	Absence of collagen XVIII in mice causes age-related insufficiency in retinal pigment epithelium proteostasis. *Biogerontology*, **2016**, 17, 749-61	4.5	9
159	AMPK and HIF signaling pathways regulate both longevity and cancer growth: the good news and the bad news about survival mechanisms. *Biogerontology*, **2016**, 17, 655-80	4.5	46
158	Long-term topical application of preservative-free prostaglandin analogues evokes macrophage infiltration in the ocular adnexa. *European Journal of Pharmacology*, **2016**, 788, 12-20	5.3	15
157	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
156	AMPK/Snf1 signaling regulates histone acetylation: Impact on gene expression and epigenetic functions. *Cellular Signalling*, **2016**, 28, 887-95	4.9	59
155	Inhibition of DNA methyltransferase or histone deacetylase protects retinal pigment epithelial cells from DNA damage induced by oxidative stress by the stimulation of antioxidant enzymes. *European Journal of Pharmacology*, **2016**, 776, 167-75	5.3	30
154	Pharmacokinetics, Efficacy, and Safety of the Preservative-free Fixed Combination of Tafluprost 0.0015% and Timolol 0.5% in Healthy Volunteers: A Phase I Comparison vs. the Corresponding Preservative-free Monotherapies. *Clinical Pharmacokinetics*, **2016**, 55, 485-94	6.2	15
153	Inflammation and its role in age-related macular degeneration. *Cellular and Molecular Life Sciences*, **2016**, 73, 1765-86	10.3	336

152	Benefits of switching from latanoprost to preservative-free tafluprost eye drops: a meta-analysis of two Phase IIIb clinical trials. *Clinical Ophthalmology*, **2016**, 10, 445-54	2.5	40
151	Hypoxia-Inducible Histone Lysine Demethylases: Impact on the Aging Process and Age-Related Diseases **2016**, 7, 180-200		47
150	Melatonin in Retinal Physiology and Pathology: The Case of Age-Related Macular Degeneration. *Oxidative Medicine and Cellular Longevity*, **2016**, 2016, 6819736	6.7	28
149	All-Trans Retinoic Acid Modulates DNA Damage Response and the Expression of the VEGF-A and MKI67 Genes in ARPE-19 Cells Subjected to Oxidative Stress. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	20
148	Nutraceutical with Resveratrol and Omega-3 Fatty Acids Induces Autophagy in ARPE-19 Cells. *Nutrients*, **2016**, 8,	6.7	24
147	Age-related changes in AMPK activation: Role for AMPK phosphatases and inhibitory phosphorylation by upstream signaling pathways. *Ageing Research Reviews*, **2016**, 28, 15-26	12	95
146	Health-related quality of life after cataract surgery with the phacoemulsification technique and intraocular lens implantation. *Acta Ophthalmologica*, **2016**, 94, 21-5	3.7	5
145	Recovery after cataract surgery. *Acta Ophthalmologica*, **2016**, 94 Suppl 2, 1-34	3.7	18
144	Endoscopic dacryocystorhinostomy as treatment for lower lacrimal pathway obstructions in adults: Review article. *Allergy and Rhinology*, **2015**, 6, 12-9	1.4	12
143	The marine n-3 PUFA DHA evokes cytoprotection against oxidative stress and protein misfolding by inducing autophagy and NFE2L2 in human retinal pigment epithelial cells. *Autophagy*, **2015**, 11, 1636-51	10.2	62
142	2-Oxoglutarate-dependent dioxygenases are sensors of energy metabolism, oxygen availability, and iron homeostasis: potential role in the regulation of aging process. *Cellular and Molecular Life Sciences*, **2015**, 72, 3897-914	10.3	57
141	Oxidative stress protection by exogenous delivery of rhHsp70 chaperone to the retinal pigment epithelium (RPE), a possible therapeutic strategy against RPE degeneration. *Pharmaceutical Research*, **2015**, 32, 211-21	4.5	32
140	Autophagy in DNA damage response. *International Journal of Molecular Sciences*, **2015**, 16, 2641-62	6.3	102
139	Climatic droplet keratopathy: an old disease in new clothes. *Acta Ophthalmologica*, **2015**, 93, 496-504	3.7	18
138	Ageing of the vitreous: From acute onset floaters and flashes to retinal detachment. *Ageing Research Reviews*, **2015**, 21, 71-7	12	27
137	Recovery and patient satisfaction after cataract surgery. A one-year prospective follow-up study. *Acta Ophthalmologica*, **2015**, 93, e172-3	3.7	7
136	Fisetin and luteolin protect human retinal pigment epithelial cells from oxidative stress-induced cell death and regulate inflammation. *Scientific Reports*, **2015**, 5, 17645	4.9	48
135	Best-corrected visual acuity and retinal thickness are associated with improved cortical visual processing in treated wet AMD patients. *Acta Ophthalmologica*, **2015**, 93, 621-5	3.7	4

134	Polyphenol Stilbenes: Molecular Mechanisms of Defence against Oxidative Stress and Aging-Related Diseases. *Oxidative Medicine and Cellular Longevity*, **2015**, 2015, 340520	6.7	130
133	Impaired mitochondrial energy metabolism in Alzheimer's disease: Impact on pathogenesis via disturbed epigenetic regulation of chromatin landscape. *Progress in Neurobiology*, **2015**, 131, 1-20	10.9	59
132	Quercetin alleviates 4-hydroxynonenal-induced cytotoxicity and inflammation in ARPE-19 cells. *Experimental Eye Research*, **2015**, 132, 208-15	3.7	38
131	Estrogen signalling in the pathogenesis of age-related macular degeneration. *Current Eye Research*, **2015**, 40, 226-33	2.9	29
130	A randomized phase I clinical study of cis-urocanic acid eye drops in healthy adult subjects. *Acta Ophthalmologica*, **2015**, 93, 368-76	3.7	9
129	A novel proteotoxic stress associated mechanism for macular corneal dystrophy. *Histology and Histopathology*, **2015**, 30, 921-30	1.4	3
128	Krebs cycle dysfunction shapes epigenetic landscape of chromatin: novel insights into mitochondrial regulation of aging process. *Cellular Signalling*, **2014**, 26, 1598-603	4.9	65
127	Retinal arterial macroaneurysms. *Acta Ophthalmologica*, **2014**, 92, 101-4	3.7	30
126	Decline in cellular clearance systems induces inflammasome signaling in human ARPE-19 cells. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2014**, 1843, 3038-46	4.9	50
125	Clearance of misfolded and aggregated proteins by aggrephagy and implications for aggregation diseases. *Ageing Research Reviews*, **2014**, 18, 16-28	12	105
124	Herpes simplex virus types 1 and 2 modulate autophagy in SIRC corneal cells. *Journal of Biosciences*, **2014**, 39, 683-92	2.3	10
123	Histone demethylase Jumonji D3 (JMJD3/KDM6B) at the nexus of epigenetic regulation of inflammation and the aging process. *Journal of Molecular Medicine*, **2014**, 92, 1035-43	5.5	85
122	Cationorm shows good tolerability on human HCE-2 corneal epithelial cell cultures. *Experimental Eye Research*, **2014**, 120, 82-9	3.7	19
121	Krebs cycle intermediates regulate DNA and histone methylation: epigenetic impact on the aging process. *Ageing Research Reviews*, **2014**, 16, 45-65	12	74
120	A rat experimental model of glaucoma incorporating rapid-onset elevation of intraocular pressure. *Scientific Reports*, **2014**, 4, 5910	4.9	44
119	Upregulation of inflammatory genes in the nasal mucosa of patients undergoing endonasal dacryocystorhinostomy. *Clinical Ophthalmology*, **2014**, 8, 799-805	2.5	2
118	Comparison of three intraocular pressure measurement methods including biomechanical properties of the cornea **2014**, 55, 666-73		59
117	Structure and barrier properties of human embryonic stem cell-derived retinal pigment epithelial cells are affected by extracellular matrix protein coating. *Tissue Engineering - Part A*, **2014**, 20, 622-34	3.9	29

116	Hypoxic conditions stimulate the release of B-type natriuretic peptide from human retinal pigment epithelium cell culture. *Acta Ophthalmologica*, **2014**, 92, 740-4	3.7	3
115	Oxidative stress, hypoxia, and autophagy in the neovascular processes of age-related macular degeneration. *BioMed Research International*, **2014**, 2014, 768026	3	153
114	Natural thermal adaptation increases heat shock protein levels and decreases oxidative stress. *Redox Biology*, **2014**, 3, 25-8	11.3	57
113	Inflammation as a target of minocycline: special interest in the regulation of inflammasome signaling. *Inflammasome*, **2014**, 1,		4
112	Inflammaging Signaling in Health Span and Life Span Regulation **2014**, 323-332		1
111	ADAMTS9 locus associates with increased risk of wet AMD. *Acta Ophthalmologica*, **2014**, 92, e410	3.7	9
110	Epigenetic regulation of ASC/TMS1 expression: potential role in apoptosis and inflammasome function. *Cellular and Molecular Life Sciences*, **2014**, 71, 1855-64	10.3	23
109	Pinosylvin-mediated protection against oxidative stress in human retinal pigment epithelial cells. *Molecular Vision*, **2014**, 20, 760-9	2.3	41
108	Excipients of preservative-free latanoprost induced inflammatory response and cytotoxicity in immortalized human HCE-2 corneal epithelial cells. *Journal of Biochemical and Pharmacological Research*, **2014**, 2, 175-184		5
107	Role of antioxidant enzymes and small molecular weight antioxidants in the pathogenesis of age-related macular degeneration (AMD). *Biogerontology*, **2013**, 14, 461-82	4.5	99
106	Beclin 1 interactome controls the crosstalk between apoptosis, autophagy and inflammasome activation: impact on the aging process. *Ageing Research Reviews*, **2013**, 12, 520-34	12	109
105	Maturation of autophagosomes and endosomes: a key role for Rab7. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2013**, 1833, 503-10	4.9	249
104	Cellular and molecular mechanisms of age-related macular degeneration: from impaired autophagy to neovascularization. *International Journal of Biochemistry and Cell Biology*, **2013**, 45, 1457-67	5.6	56
103	Antagonistic crosstalk between NF-B and SIRT1 in the regulation of inflammation and metabolic disorders. *Cellular Signalling*, **2013**, 25, 1939-48	4.9	542
102	Impaired autophagy and APP processing in Alzheimer's disease: The potential role of Beclin 1 interactome. *Progress in Neurobiology*, **2013**, 106-107, 33-54	10.9	213
101	Postoperative pain after cataract surgery. *Journal of Cataract and Refractive Surgery*, **2013**, 39, 789-98	2.3	24
100	Crosstalk between Oxidative Stress and SIRT1: Impact on the Aging Process. *International Journal of Molecular Sciences*, **2013**, 14, 3834-59	6.3	262
99	Mitochondrial and nuclear DNA damage and repair in age-related macular degeneration. *International Journal of Molecular Sciences*, **2013**, 14, 2996-3010	6.3	64

98	Autophagy and heterophagy dysregulation leads to retinal pigment epithelium dysfunction and development of age-related macular degeneration. *Autophagy*, **2013**, 9, 973-84	10.2	224
97	Changes in neurophysiologic markers of visual processing following beneficial anti-VEGF treatment in macular degeneration. *Clinical Ophthalmology*, **2013**, 7, 437-42	2.5	5
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