

Usha P Andley

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.

82

papers

6,843

citations

30

h-index

82

g-index

83

ext. papers

7,635

ext. citations

4.2

avg, IF

5.29

L-index

#	Paper	IF	Citations
82	Oxysterol Compounds in Mouse Mutant A - and B -Crystallin Lenses Can Improve the Optical Properties of the Lens. 2022 , 63, 15		0
81	Analysis of amyloid-like secondary structure in the Cryab-R120G knock-in mouse model of hereditary cataracts by two-dimensional infrared spectroscopy. <i>PLoS ONE</i> , 2021 , 16, e0257098	3.7	5
80	Creatine kinase/ β -crystallin interaction functions in cataract development. <i>Biochemistry and Biophysics Reports</i> , 2020 , 22, 100748	2.2	1
79	Changes in relative histone abundance and heterochromatin in A -crystallin and B -crystallin knock-in mutant mouse lenses. <i>BMC Research Notes</i> , 2020 , 13, 315	2.3	1
78	Alpha-crystallin mutations alter lens metabolites in mouse models of human cataracts. <i>PLoS ONE</i> , 2020 , 15, e0238081	3.7	4
77	Mechanism of Action of VP1-001 in cryAB(R120G)-Associated and Age-Related Cataracts 2019 , 60, 3320-3331		12
76	interactions of histones and β -crystallin. <i>Biochemistry and Biophysics Reports</i> , 2018 , 15, 7-12	2.2	2
75	Probing the changes in gene expression due to β -crystallin mutations in mouse models of hereditary human cataract. <i>PLoS ONE</i> , 2018 , 13, e0190817	3.7	15
74	Autophagy and UPR in alpha-crystallin mutant knock-in mouse models of hereditary cataracts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016 , 1860, 234-9	4	23
73	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
72	Pharmacological chaperone for β -crystallin partially restores transparency in cataract models. <i>Science</i> , 2015 , 350, 674-7	33.3	145
71	In vivo substrates of the lens molecular chaperones A -crystallin and B -crystallin. <i>PLoS ONE</i> , 2014 , 9, e95507	3.7	25
70	p62 expression and autophagy in B -crystallin R120G mutant knock-in mouse model of hereditary cataract. <i>Experimental Eye Research</i> , 2013 , 115, 263-73	3.7	34
69	Comparative proteomic analysis identifies age-dependent increases in the abundance of specific proteins after deletion of the small heat shock proteins A - and B -crystallin. <i>Biochemistry</i> , 2013 , 52, 2933-48	3.2	12
68	A knock-in mouse model for the R120G mutation of B -crystallin recapitulates human hereditary myopathy and cataracts. <i>PLoS ONE</i> , 2011 , 6, e17671	3.7	51
67	Immunological detection of N-formylkynurenine in porphyrin-mediated photooxidized lens β -crystallin. <i>Photochemistry and Photobiology</i> , 2011 , 87, 1321-9	3.6	13
66	Inhibition of lens photodamage by UV-absorbing contact lenses 2011 , 52, 8330-41		23

65	Evaluation of the toxicity of triamcinolone acetonide and dexamethasone sodium phosphate on human lens epithelial cells (HLE B-3). <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2011 , 27, 265-71	2.6	13
64	Detection and prevention of ocular phototoxicity of ciprofloxacin and other fluoroquinolone antibiotics. <i>Photochemistry and Photobiology</i> , 2010 , 86, 798-805	3.6	34
63	Activation of the unfolded protein response by a cataract-associated α -crystallin mutation. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 401, 192-6	3.4	24
62	In vivo lens deficiency of the R49C alphaA-crystallin mutant. <i>Experimental Eye Research</i> , 2010 , 90, 699-703	3.7	17
61	α -Crystallin associates with β integrin receptor complexes and regulates cellular signaling. <i>Experimental Eye Research</i> , 2010 , 91, 640-51	3.7	9
60	Quantitative biometric phenotype analysis in mouse lenses. <i>Molecular Vision</i> , 2010 , 16, 1041-6	2.3	5
59	Mechanism of small heat shock protein function in vivo. A knock-in mouse model demonstrates that the R49C mutation in α -crystallin enhances protein insolubility and cell death.. <i>Journal of Biological Chemistry</i> , 2009 , 284, 35996	5.4	78
58	AlphaA-crystallin R49Cneo mutation influences the architecture of lens fiber cell membranes and causes posterior and nuclear cataracts in mice. <i>BMC Ophthalmology</i> , 2009 , 9, 4	2.3	19
57	Difference in phototoxicity of cyclodextrin complexed fullerene [(gamma-CyD) ₂ /C60] and its aggregated derivatives toward human lens epithelial cells. <i>Chemical Research in Toxicology</i> , 2009 , 22, 660-7	4	55
56	Effects of alpha-crystallin on lens cell function and cataract pathology. <i>Current Molecular Medicine</i> , 2009 , 9, 887-92	2.5	75
55	Phototoxicity and cytotoxicity of fullerol in human lens epithelial cells. <i>Toxicology and Applied Pharmacology</i> , 2008 , 228, 49-58	4.6	91
54	The lens epithelium: focus on the expression and function of the alpha-crystallin chaperones. <i>International Journal of Biochemistry and Cell Biology</i> , 2008 , 40, 317-23	5.6	52
53	Mechanism of insolubilization by a single-point mutation in alphaA-crystallin linked with hereditary human cataracts. <i>Biochemistry</i> , 2008 , 47, 9697-706	3.2	27
52	Mechanism of small heat shock protein function in vivo: a knock-in mouse model demonstrates that the R49C mutation in alpha A-crystallin enhances protein insolubility and cell death. <i>Journal of Biological Chemistry</i> , 2008 , 283, 5801-14	5.4	44
51	Non-thermal electromagnetic radiation damage to lens epithelium. <i>Open Ophthalmology Journal</i> , 2008 , 2, 102-6	0.9	9
50	Identification of Genes Responsive to UV-A Radiation in Human Lens Epithelial Cells Using Complementary DNA Microarrays. <i>Photochemistry and Photobiology</i> , 2007 , 80, 61-71	3.6	
49	Phototoxicity in Human Lens Epithelial Cells Promoted by St. John's Wort. <i>Photochemistry and Photobiology</i> , 2007 , 80, 583-586	3.6	
48	Crystallins in the eye: Function and pathology. <i>Progress in Retinal and Eye Research</i> , 2007 , 26, 78-98	20.5	311

47	Up-regulation of tau, a brain microtubule-associated protein, in lens cortical fractions of aged alphaA-, alphaB-, and alphaA/B-crystallin knockout mice. <i>Molecular Vision</i> , 2007 , 13, 1589-600	2.3	6
46	Alpha-crystallin expression affects microtubule assembly and prevents their aggregation. <i>FASEB Journal</i> , 2006 , 20, 846-57	0.9	63
45	Crystallins and hereditary cataracts: molecular mechanisms and potential for therapy. <i>Expert Reviews in Molecular Medicine</i> , 2006 , 8, 1-19	6.7	30
44	Peroxide resistance in human and mouse lens epithelial cell lines is related to long-term changes in cell biology and architecture. <i>Free Radical Biology and Medicine</i> , 2005 , 39, 797-810	7.8	10
43	Gauri Shankar Singhal (1933-2004): a photochemist, a photobiologist, a great mentor and a generous friend. <i>Photosynthesis Research</i> , 2005 , 85, 145-8	3.7	2
42	Mimicking phosphorylation of the small heat-shock protein alphaB-crystallin recruits the F-box protein FBX4 to nuclear SC35 speckles. <i>FEBS Journal</i> , 2004 , 271, 4195-203		54
41	Cell kinetic status of mouse lens epithelial cells lacking alphaA- and alphaB-crystallin. <i>Molecular and Cellular Biochemistry</i> , 2004 , 265, 115-22	4.2	15
40	A comparative analysis of alphaA- and alphaB-crystallin expression during the cell cycle in primary mouse lens epithelial cultures. <i>Experimental Eye Research</i> , 2004 , 79, 795-805	3.7	16
39	Phototoxicity in human lens epithelial cells promoted by St. John's Wort. <i>Photochemistry and Photobiology</i> , 2004 , 80, 583-6	3.6	9
38	Identification of genes responsive to UV-A radiation in human lens epithelial cells using complementary DNA microarrays. <i>Photochemistry and Photobiology</i> , 2004 , 80, 61-71	3.6	14
37	Phototoxicity in Human Lens Epithelial Cells Promoted by St. John's Wort. <i>Photochemistry and Photobiology</i> , 2004 , 80, 583	3.6	10
36	A missense mutation in the gammaD crystallin gene (CRYGD) associated with autosomal dominant "coral-like" cataract linked to chromosome 2q. <i>Molecular Vision</i> , 2004 , 10, 155-62	2.3	38
35	Hyperproliferation and p53 status of lens epithelial cells derived from alphaB-crystallin knockout mice. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36876-86	5.4	35
34	Metabolism of lipid derived aldehyde, 4-hydroxynonenal in human lens epithelial cells and rat lens. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 2675-82		29
33	Proteome analysis of lens epithelia, fibers, and the HLE B-3 cell line. <i>Investigative Ophthalmology and Visual Science</i> , 2003 , 44, 4829-36		47
32	Cell death triggered by a novel mutation in the alphaA-crystallin gene underlies autosomal dominant cataract linked to chromosome 21q. <i>European Journal of Human Genetics</i> , 2003 , 11, 784-93	5.3	153
31	Reduced survival of lens epithelial cells in the alphaA-crystallin-knockout mouse. <i>Journal of Cell Science</i> , 2003 , 116, 1073-85	5.3	52
30	A comprehensive analysis of the expression of crystallins in mouse retina. <i>Molecular Vision</i> , 2003 , 9, 410-23		88

29	The R116C mutation in alpha A-crystallin diminishes its protective ability against stress-induced lens epithelial cell apoptosis. <i>Journal of Biological Chemistry</i> , 2002 , 277, 10178-86	5.4	62
28	Lens epithelial cells derived from alphaB-crystallin knockout mice demonstrate hyperproliferation and genomic instability. <i>FASEB Journal</i> , 2001 , 15, 221-229	0.9	62
27	Ubiquitin-activating enzyme (E1) isoforms in lens epithelial cells: origin of translation, E2 specificity and cellular localization determined with novel site-specific antibodies. <i>Experimental Eye Research</i> , 2001 , 73, 827-36	3.7	28
26	Differential protective activity of alpha A- and alphaB-crystallin in lens epithelial cells. <i>Journal of Biological Chemistry</i> , 2000 , 275, 36823-31	5.4	124
25	Induction of heme oxygenase-1 modulates cis-aconitase activity in lens epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 270, 324-8	3.4	8
24	DNA repair and survival in human lens epithelial cells with extended lifespan. <i>Current Eye Research</i> , 1999 , 18, 224-30	2.9	20
23	The molecular chaperone alphaA-crystallin enhances lens epithelial cell growth and resistance to UVA stress. <i>Journal of Biological Chemistry</i> , 1998 , 273, 31252-61	5.4	91
22	Cloning, expression, and chaperone-like activity of human alphaA-crystallin. <i>Journal of Biological Chemistry</i> , 1996 , 271, 31973-80	5.4	142
21	Ultraviolet action spectra for photobiological effects in cultured human lens epithelial cells. <i>Photochemistry and Photobiology</i> , 1995 , 62, 840-6	3.6	19
20	Expression of recombinant bovine gamma B-, gamma C- and gamma D-crystallins and correlation with native proteins. <i>Experimental Eye Research</i> , 1994 , 58, 573-84	3.7	23
19	Photoreactions of human lens monomeric crystallins. <i>BBA - Proteins and Proteomics</i> , 1989 , 997, 284-91		7
18	The effects of near-UV radiation on human lens beta-crystallins: protein structural changes and the production of O ₂ - and H ₂ O ₂ . <i>Photochemistry and Photobiology</i> , 1989 , 50, 97-105	3.6	46
17	Conformational changes of beta H-crystallin in riboflavin-sensitized photooxidation. <i>Experimental Eye Research</i> , 1988 , 47, 1-15	3.7	17
16	Accessibilities of the sulfhydryl groups of native and photooxidized lens crystallins: a fluorescence lifetime and quenching study. <i>Biochemistry</i> , 1988 , 27, 810-20	3.2	11
15	Lens hexokinase deactivation by near-UV irradiation. <i>Current Eye Research</i> , 1988 , 7, 257-63	2.9	23
14	Spectroscopic studies on the riboflavin-sensitized conformational changes of calf lens alpha-crystallin. <i>Experimental Eye Research</i> , 1988 , 46, 531-44	3.7	13
13	Spectroscopic studies on the photooxidation of calf-lens gamma-crystallin. <i>Current Eye Research</i> , 1988 , 7, 571-9	2.9	28
12	Photosensitized Oxidation Of Lens Crystallins: Role Of Conformational Changes In Cataract 1988 ,		1

11	Oxidative damage to human lens enzymes. <i>Current Eye Research</i> , 1987 , 6, 345-50	2.9	17
10	Photodamage to the eye. <i>Photochemistry and Photobiology</i> , 1987 , 46, 1057-66	3.6	72
9	Conformational changes of bovine lens crystallins in a photodynamic system. <i>Photochemistry and Photobiology</i> , 1986 , 44, 67-74	3.6	26
8	Change in sulfhydryl group microenvironment of calf lens alpha-crystallin by 300 nm light. <i>Photochemistry and Photobiology</i> , 1986 , 43, 175-81	3.6	13
7	Spectroscopic studies on human lens crystallins. <i>BBA - Proteins and Proteomics</i> , 1985 , 832, 197-203		27
6	Fluorescence studies on tryptophan and sulfhydryl group changes of bovine lens crystallins in a photodynamic system. <i>Current Eye Research</i> , 1985 , 4, 831-42	2.9	16
5	Changes in tertiary structure of calf-lens alpha-crystallin by near-UV irradiation: role of hydrogen peroxide. <i>Photochemistry and Photobiology</i> , 1984 , 40, 343-9	3.6	77
4	Role of singlet oxygen in the degradation of hyaluronic acid. <i>Biochemical and Biophysical Research Communications</i> , 1983 , 115, 894-901	3.4	39
3	Light-induced change in rhodopsin emission: phosphorescence and fluorescence. <i>Photochemistry and Photobiology</i> , 1982 , 35, 385-90	3.6	3
2	Spectroscopic investigations of bovine lens crystallins. 2. Fluorescent probes for polar-apolar nature and sulfhydryl group accessibility. <i>Biochemistry</i> , 1982 , 21, 1853-8	3.2	61
1	Interaction of 8-amino-1-naphthalenesulfonate with rod outer segment membrane. <i>Biochemistry</i> , 1981 , 20, 1687-93	3.2	29