

# Usha P Andley

## List of Publications by Citations

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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	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
81	Crystallins in the eye: Function and pathology. <i>Progress in Retinal and Eye Research</i> , <b>2007</b> , 26, 78-98	20.5	311
80	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> , <b>2003</b> , 11, 784-93	5.3	153
79	Pharmacological chaperone for $\alpha$ -crystallin partially restores transparency in cataract models. <i>Science</i> , <b>2015</b> , 350, 674-7	33.3	145
78	Cloning, expression, and chaperone-like activity of human alphaA-crystallin. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 31973-80	5.4	142
77	Differential protective activity of alpha A- and alphaB-crystallin in lens epithelial cells. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 36823-31	5.4	124
76	Phototoxicity and cytotoxicity of fullerol in human lens epithelial cells. <i>Toxicology and Applied Pharmacology</i> , <b>2008</b> , 228, 49-58	4.6	91
75	The molecular chaperone alphaA-crystallin enhances lens epithelial cell growth and resistance to UVA stress. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 31252-61	5.4	91
74	A comprehensive analysis of the expression of crystallins in mouse retina. <i>Molecular Vision</i> , <b>2003</b> , 9, 410-23	2.3	88
73	Mechanism of small heat shock protein function in vivo. A knock-in mouse model demonstrates that the R49C mutation in $\alpha$ -crystallin enhances protein insolubility and cell death.. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 35996	5.4	78
72	Changes in tertiary structure of calf-lens alpha-crystallin by near-UV irradiation: role of hydrogen peroxide. <i>Photochemistry and Photobiology</i> , <b>1984</b> , 40, 343-9	3.6	77
71	Effects of alpha-crystallin on lens cell function and cataract pathology. <i>Current Molecular Medicine</i> , <b>2009</b> , 9, 887-92	2.5	75
70	Photodamage to the eye. <i>Photochemistry and Photobiology</i> , <b>1987</b> , 46, 1057-66	3.6	72
69	Alpha-crystallin expression affects microtubule assembly and prevents their aggregation. <i>FASEB Journal</i> , <b>2006</b> , 20, 846-57	0.9	63
68	Lens epithelial cells derived from alphaB-crystallin knockout mice demonstrate hyperproliferation and genomic instability. <i>FASEB Journal</i> , <b>2001</b> , 15, 221-229	0.9	62
67	The R116C mutation in alpha A-crystallin diminishes its protective ability against stress-induced lens epithelial cell apoptosis. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 10178-86	5.4	62
66	Spectroscopic investigations of bovine lens crystallins. 2. Fluorescent probes for polar-apolar nature and sulfhydryl group accessibility. <i>Biochemistry</i> , <b>1982</b> , 21, 1853-8	3.2	61

65	Difference in phototoxicity of cyclodextrin complexed fullerene [(gamma-CyD) <sub>2</sub> /C <sub>60</sub> ] and its aggregated derivatives toward human lens epithelial cells. <i>Chemical Research in Toxicology</i> , <b>2009</b> , 22, 660-7	4	55
64	Mimicking phosphorylation of the small heat-shock protein alphaB-crystallin recruits the F-box protein FBX4 to nuclear SC35 speckles. <i>FEBS Journal</i> , <b>2004</b> , 271, 4195-203		54
63	The lens epithelium: focus on the expression and function of the alpha-crystallin chaperones. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2008</b> , 40, 317-23	5.6	52
62	Reduced survival of lens epithelial cells in the alphaA-crystallin-knockout mouse. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 1073-85	5.3	52
61	A knock-in mouse model for the R120G mutation of B-crystallin recapitulates human hereditary myopathy and cataracts. <i>PLoS ONE</i> , <b>2011</b> , 6, e17671	3.7	51
60	Proteome analysis of lens epithelia, fibers, and the HLE B-3 cell line. <i>Investigative Ophthalmology and Visual Science</i> , <b>2003</b> , 44, 4829-36		47
59	The effects of near-UV radiation on human lens beta-crystallins: protein structural changes and the production of O <sub>2</sub> - and H <sub>2</sub> O <sub>2</sub> . <i>Photochemistry and Photobiology</i> , <b>1989</b> , 50, 97-105	3.6	46
58	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> , <b>2008</b> , 283, 5801-14	5.4	44
57	Role of singlet oxygen in the degradation of hyaluronic acid. <i>Biochemical and Biophysical Research Communications</i> , <b>1983</b> , 115, 894-901	3.4	39
56	A missense mutation in the gammaD crystallin gene (CRYGD) associated with autosomal dominant "coral-like" cataract linked to chromosome 2q. <i>Molecular Vision</i> , <b>2004</b> , 10, 155-62	2.3	38
55	Hyperproliferation and p53 status of lens epithelial cells derived from alphaB-crystallin knockout mice. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 36876-86	5.4	35
54	p62 expression and autophagy in B-crystallin R120G mutant knock-in mouse model of hereditary cataract. <i>Experimental Eye Research</i> , <b>2013</b> , 115, 263-73	3.7	34
53	Detection and prevention of ocular phototoxicity of ciprofloxacin and other fluoroquinolone antibiotics. <i>Photochemistry and Photobiology</i> , <b>2010</b> , 86, 798-805	3.6	34
52	Crystallins and hereditary cataracts: molecular mechanisms and potential for therapy. <i>Expert Reviews in Molecular Medicine</i> , <b>2006</b> , 8, 1-19	6.7	30
51	Metabolism of lipid derived aldehyde, 4-hydroxynonenal in human lens epithelial cells and rat lens. <i>Investigative Ophthalmology and Visual Science</i> , <b>2003</b> , 44, 2675-82		29
50	Interaction of 8-amino-1-naphthalenesulfonate with rod outer segment membrane. <i>Biochemistry</i> , <b>1981</b> , 20, 1687-93	3.2	29
49	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> , <b>2001</b> , 73, 827-36	3.7	28
48	Spectroscopic studies on the photooxidation of calf-lens gamma-crystallin. <i>Current Eye Research</i> , <b>1988</b> , 7, 571-9	2.9	28

47	Mechanism of insolubilization by a single-point mutation in alphaA-crystallin linked with hereditary human cataracts. <i>Biochemistry</i> , <b>2008</b> , 47, 9697-706	3.2	27
46	Spectroscopic studies on human lens crystallins. <i>BBA - Proteins and Proteomics</i> , <b>1985</b> , 832, 197-203		27
45	Conformational changes of bovine lens crystallins in a photodynamic system. <i>Photochemistry and Photobiology</i> , <b>1986</b> , 44, 67-74	3.6	26
44	In vivo substrates of the lens molecular chaperones A-crystallin and B-crystallin. <i>PLoS ONE</i> , <b>2014</b> , 9, e95507	3.7	25
43	Activation of the unfolded protein response by a cataract-associated A-crystallin mutation. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 401, 192-6	3.4	24
42	Autophagy and UPR in alpha-crystallin mutant knock-in mouse models of hereditary cataracts. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 234-9	4	23
41	Inhibition of lens photodamage by UV-absorbing contact lenses <b>2011</b> , 52, 8330-41		23
40	Expression of recombinant bovine gamma B-, gamma C- and gamma D-crystallins and correlation with native proteins. <i>Experimental Eye Research</i> , <b>1994</b> , 58, 573-84	3.7	23
39	Lens hexokinase deactivation by near-UV irradiation. <i>Current Eye Research</i> , <b>1988</b> , 7, 257-63	2.9	23
38	DNA repair and survival in human lens epithelial cells with extended lifespan. <i>Current Eye Research</i> , <b>1999</b> , 18, 224-30	2.9	20
37	AlphaA-crystallin R49Cneo mutation influences the architecture of lens fiber cell membranes and causes posterior and nuclear cataracts in mice. <i>BMC Ophthalmology</i> , <b>2009</b> , 9, 4	2.3	19
36	Ultraviolet action spectra for photobiological effects in cultured human lens epithelial cells. <i>Photochemistry and Photobiology</i> , <b>1995</b> , 62, 840-6	3.6	19
35	In vivo lens deficiency of the R49C alphaA-crystallin mutant. <i>Experimental Eye Research</i> , <b>2010</b> , 90, 699-703	3.7	17
34	Oxidative damage to human lens enzymes. <i>Current Eye Research</i> , <b>1987</b> , 6, 345-50	2.9	17
33	Conformational changes of beta H-crystallin in riboflavin-sensitized photooxidation. <i>Experimental Eye Research</i> , <b>1988</b> , 47, 1-15	3.7	17
32	A comparative analysis of alphaA- and alphaB-crystallin expression during the cell cycle in primary mouse lens epithelial cultures. <i>Experimental Eye Research</i> , <b>2004</b> , 79, 795-805	3.7	16
31	Fluorescence studies on tryptophan and sulfhydryl group changes of bovine lens crystallins in a photodynamic system. <i>Current Eye Research</i> , <b>1985</b> , 4, 831-42	2.9	16
30	Cell kinetic status of mouse lens epithelial cells lacking alphaA- and alphaB-crystallin. <i>Molecular and Cellular Biochemistry</i> , <b>2004</b> , 265, 115-22	4.2	15

29	Probing the changes in gene expression due to $\beta$ -crystallin mutations in mouse models of hereditary human cataract. <i>PLoS ONE</i> , <b>2018</b> , 13, e0190817	3.7	15
28	Identification of genes responsive to UV-A radiation in human lens epithelial cells using complementary DNA microarrays. <i>Photochemistry and Photobiology</i> , <b>2004</b> , 80, 61-71	3.6	14
27	Immunological detection of N-formylkynurenine in porphyrin-mediated photooxidized lens $\beta$ -crystallin. <i>Photochemistry and Photobiology</i> , <b>2011</b> , 87, 1321-9	3.6	13
26	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> , <b>2011</b> , 27, 265-71	2.6	13
25	Change in sulfhydryl group microenvironment of calf lens alpha-crystallin by 300 nm light. <i>Photochemistry and Photobiology</i> , <b>1986</b> , 43, 175-81	3.6	13
24	Spectroscopic studies on the riboflavin-sensitized conformational changes of calf lens alpha-crystallin. <i>Experimental Eye Research</i> , <b>1988</b> , 46, 531-44	3.7	13
23	Mechanism of Action of VP1-001 in cryAB(R120G)-Associated and Age-Related Cataracts <b>2019</b> , 60, 3320-3331		12
22	Comparative proteomic analysis identifies age-dependent increases in the abundance of specific proteins after deletion of the small heat shock proteins $\alpha$ - and $\beta$ -crystallin. <i>Biochemistry</i> , <b>2013</b> , 52, 2933-48	3.2	12
21	Accessibilities of the sulfhydryl groups of native and photooxidized lens crystallins: a fluorescence lifetime and quenching study. <i>Biochemistry</i> , <b>1988</b> , 27, 810-20	3.2	11
20	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> , <b>2005</b> , 39, 797-810	7.8	10
19	Phototoxicity in Human Lens Epithelial Cells Promoted by St. John's Wort. <i>Photochemistry and Photobiology</i> , <b>2004</b> , 80, 583	3.6	10
18	$\alpha$ -Crystallin associates with $\beta$ integrin receptor complexes and regulates cellular signaling. <i>Experimental Eye Research</i> , <b>2010</b> , 91, 640-51	3.7	9
17	Phototoxicity in human lens epithelial cells promoted by St. John's Wort. <i>Photochemistry and Photobiology</i> , <b>2004</b> , 80, 583-6	3.6	9
16	Non-thermal electromagnetic radiation damage to lens epithelium. <i>Open Ophthalmology Journal</i> , <b>2008</b> , 2, 102-6	0.9	9
15	Induction of heme oxygenase-1 modulates cis-aconitase activity in lens epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 270, 324-8	3.4	8
14	Photoreactions of human lens monomeric crystallins. <i>BBA - Proteins and Proteomics</i> , <b>1989</b> , 997, 284-91		7
13	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> , <b>2007</b> , 13, 1589-600	2.3	6
12	Quantitative biometric phenotype analysis in mouse lenses. <i>Molecular Vision</i> , <b>2010</b> , 16, 1041-6	2.3	5

11	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> , <b>2021</b> , 16, e0257098	3.7	5
10	Alpha-crystallin mutations alter lens metabolites in mouse models of human cataracts. <i>PLoS ONE</i> , <b>2020</b> , 15, e0238081	3.7	4
9	Light-induced change in rhodopsin emission: phosphorescence and fluorescence. <i>Photochemistry and Photobiology</i> , <b>1982</b> , 35, 385-90	3.6	3
8	interactions of histones and $\alpha$ -crystallin. <i>Biochemistry and Biophysics Reports</i> , <b>2018</b> , 15, 7-12	2.2	2
7	Gauri Shankar Singhal (1933-2004): a photochemist, a photobiologist, a great mentor and a generous friend. <i>Photosynthesis Research</i> , <b>2005</b> , 85, 145-8	3.7	2
6	Creatine kinase/ $\alpha$ -crystallin interaction functions in cataract development. <i>Biochemistry and Biophysics Reports</i> , <b>2020</b> , 22, 100748	2.2	1
5	Changes in relative histone abundance and heterochromatin in $\alpha$ -crystallin and $\beta$ -crystallin knock-in mutant mouse lenses. <i>BMC Research Notes</i> , <b>2020</b> , 13, 315	2.3	1
4	Photosensitized Oxidation Of Lens Crystallins: Role Of Conformational Changes In Cataract <b>1988</b> ,		1
3	Oxysterol Compounds in Mouse Mutant $\alpha$ - and $\beta$ -Crystallin Lenses Can Improve the Optical Properties of the Lens. <b>2022</b> , 63, 15		0
2	Identification of Genes Responsive to UV-A Radiation in Human Lens Epithelial Cells Using Complementary DNA Microarrays. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 80, 61-71	3.6	
1	Phototoxicity in Human Lens Epithelial Cells Promoted by St. John's Wort. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 80, 583-586	3.6	